









The tools and instruments you use say a lot about the quality of work you do. You know what it takes to succeed in today's modern electrical world and IDEAL fills those needs with high-quality, innovative solutions. We realize there's a bond between a professional and his equipment that can't be broken by the latest gimmick. That's why this catalog is filled with thoughtfully designed **products** you can depend on for years.



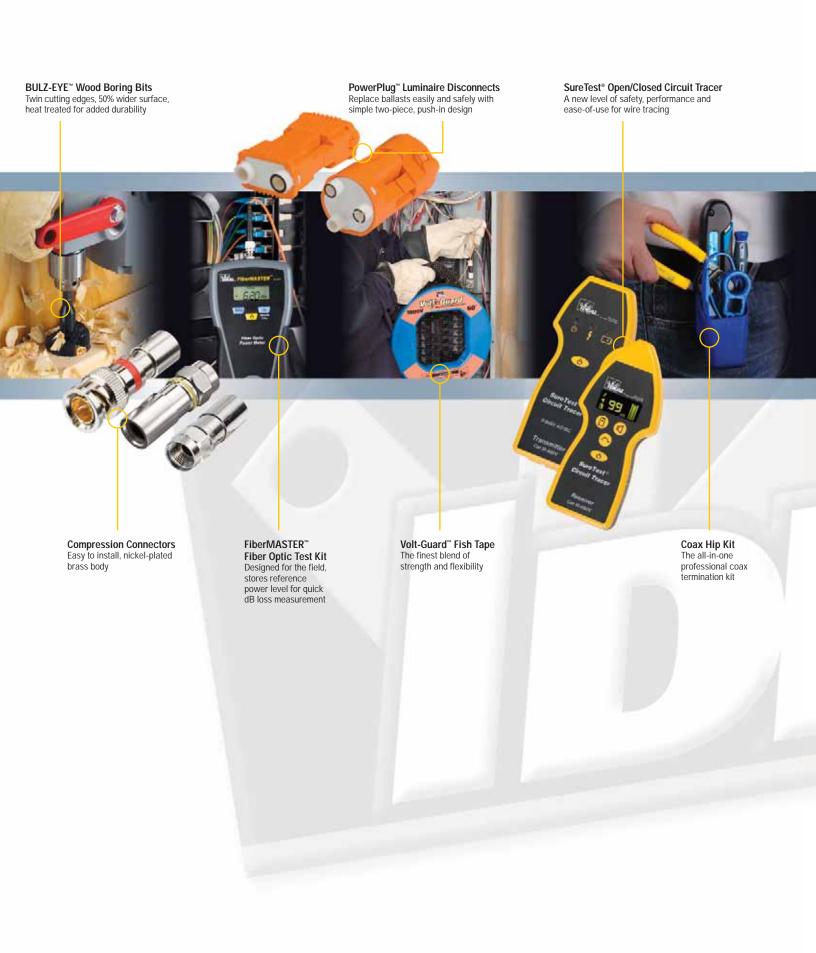
You know the craft inside and out. You're never finished with the job until it meets your standards. You take **pride** in the way you go about day-to-day business, and that means only using equipment that can hold up its end of the bargain. We understand that kind of pride. Every day IDEAL considers the needs of electricians and the result is a line of products worthy of a professional.



Every IDEAL product is designed to deliver superior **performance**. That means they're built to be easy-to-use, they're built to last and, most importantly, they're built with your safety in mind. One day, one job at a time, IDEAL products are there to help you perform at the highest level.

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Wire Installation	R
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Combine need and ingenuity. The result is innovation.

Connectors designed for every application



Wire-Nut® Wire Connectors

The original twist-on wire connector features a positive-grip design for easy installation. Five color-coded models cover hundreds of wire combinations from 22 through 8 AWG. The fixed square-wire spring provides a secure connection that won't relax over time.

Wing-Nut® Wire Connectors

The next step in IDEAL wire connector innovation. Three models accommodate a wide range of circuit and fixture wiring combinations from 18 through 6 AWG. Built-in, contoured wings provide extra leverage on maximum wire combinations. And the live-action spring expands to accept a broader range of wire shapes and sizes.





Twister® Wire Connectors

The industry's premier wire connector. Just two models accommodate the majority of common wiring configurations from 22 through 6 AWG. The ribbed cap provides a secure grip and swept wings offer extra leverage. A patented square-wire spring provides safe, secure connections.

Twister® AI/Cu Wire Connectors

The only aluminum-to-copper twist-on wire connector. Specially formulated compound reduces corrosion build-up on aluminum conductors for better conductivity and cooler connections. UL Listed and CSA Certified for aluminum-to-copper connections.





Twister® DB Plus™ Wire Connectors

The smallest wet location/direct burial wire connector. Offers the widest range of wire combinations from 20 through 12 AWG. Features non-hardening sealant to ensure safe and moisture-free connections. UL Listed and CSA Certified for underground and wet locations.

B-CAP® Wire Connectors

Contoured Classic Fins™ provide a secure grip for extra torque. Three models cover a full range of wire sizes from 22 through 6 AWG. The square-wire spring locks onto conductor for fast, secure connections. Compact size allows easy handling and installation.





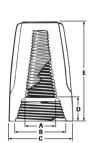




Wire-Nut® Wire Connectors

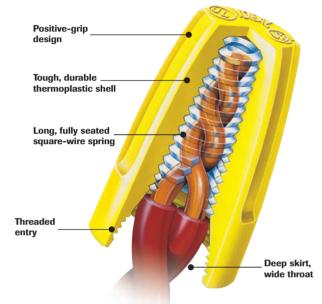
- Five color-coded models cover a full range of wire sizes from 22 8 AWG
- Fixed, square-wire spring creates its own threads maintains a secure positive grip that will not relax over time
- No pre-twisting required positive grip design provides fast, easy installation
- Deep, wide skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Reusable for easy circuit changes and additions
- Tough, UL94V-2 flame-retardant shell rated at 105°C (221°F)
- UL Listed to 486C and CSA certified to C22.2 #188; comply with Federal Specification W-S-610E
- Classified in accordance with IEC Publications 998-2 and 998-2-4





Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

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Model	Α	В	C	D	E			
71B®	11/64	<u>1/4</u>	<u>21/64</u>	11/64	<u>37/64</u>			
	4.5	6.5	8	4.5	15			
72B®	<u>11/64</u>	<u>5/16</u>	<u>25/64</u>	<u>3/16</u>	<u>45/64</u>			
	4.5	8	10	5	18			
73B®	<u>11/64</u>	<u>11/32</u>	<u>7/16</u>	<u>11/32</u>	<u>55/64</u>			
	4.5	9	11	9	22			
74B®	<u>17/64</u>	<u>7/16</u>	35/64	<u>5/16</u>	61/64			
	7	11	14	8	24			
76B®	<u>9/32</u>	<u>1/2</u>	<u>19/32</u>	<u>3/8</u>	<u>1-1/16</u>			
	7	13	15	10	27			



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.			
		300V	300V	Box of 100	30-071			
71B®	Gray	22 to 16 AWG	.34mm² to 1,5mm²	Carton of 1,000	30-171			
	J. L.	Min. 2 #22 – Max. 2 #16	Min. 2-,34mm ² Max. 3-1,5mm ²	Keg of 25,000 (loose pack)	30-271			
		2 // 22 10	2 ,6	Barrel of 150,000	30-871			
		300V	300V	Box of 100	30-072			
72B®	Blue	22 to 14 AWG	,34mm² to 2,5mm²	Carton of 1,000	30-172			
720	Diuc	Min. 2 #22 – Max. 3 #16	Min. 2-,34mm ² Max. 3-1,5mm ²	Keg of 10,000 (loose pack)	30-272			
		Willi. 2 #22 — Wax. 3 #10	1VIIII. 2-,54111111 1VIAX. 5-1,5111111	Barrel of 85,000	30-872			
				Box of 100	30-073			
	600V*	600V* 600V*	Jar of 300	30-073J				
73B®	Orange	22 to 14 AWG	,34mm² to 2,5mm²	Carton of 1,000	30-173			
	9-	Min. 1 #18 & 1 #20	Min. 1-,75mm² w/1-,50mm²	Keg of 5,000 (10 bags, 500 ea.)	30-273			
				N	Max. 4 #16 & 1 #20	Max. 4-1,5mm ² w/1-,50mm ²	Keg of 10,000 (loose pack)	30-673
				Barrel of 50,000	30-873			
				Box of 100	30-074			
		600V*	600V*	Jar of 175	30-074J			
74B®	Yellow	18 to 12 AWG	,75mm² to 4,0mm²	Carton of 1,000	30-174			
		Min. 2 #18	Min. 2-,75mm²	Keg of 5,000 (10 bags, 500 ea.)	30-274			
		Max. 4 #14 & 1 #18	Max. 4-2,5mm ² w/1-,75mm ²	Keg of 10,000 (loose pack)	30-674			
				Barrel of 35,000	30-874			
		600V*	600V*	Box of 100	30-076			
		18 to 10 AWG	,75mm² to 6,0mm²	Carton of 1,000	30-176			
76B®	Red	Min. 2 #14	Min. 2-2,5mm ²	Keg of 2,500 (10 bags, 250 ea.)	30-276			
		Max. 4 #12	Max. 2-4,0mm ²	Barrel of 15,000	30-876			
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^{*1,000}V maximum in fixtures and signs



High Temperature Wire-Nut® Wire Connectors

All of the Wire-Nut® Wire Connector features plus:

- Black, thermoplastic shell specially designed to withstand the extreme heat build-up commonly found in high-wattage light fixtures and signs. UL Listed to 150°C (302°F)
- Four models to cover wire ranges from 22 through 12 AWG









Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
71B®	Black	300V 22 to 16 AWG	300V ,34mm² to 1,5mm²	Carton of 1,000	30-151
710	Didok	Min. 2 #22 Str Max. 2 #16	Min. 2-,34mm² Max. 2-1,5mm²	Keg of 25,000 (loose pack)	30-251
72B®	Black	300V 22 to 14 AWG	300V ,34mm² to 2,5mm²	Carton of 1,000	30-152
120	Didek	Min. 2 #22 Max. 3 #16	Min. 2-,34mm² Max. 3-1,5mm²	Keg of 10,000 (loose pack)	30-252
73B®	Black	600V* 22 to 14 AWG	600V* ,34mm² to 2,5mm²	Carton of 1,000	30-153
730	DIACK	Min. 1 #18 w/1 #20 Max. 4 #16 & 1 #20	Min. 1-,75mm² w/1-,50mm² Max. 4-1,5mm² w/1-,50mm²	Keg of 10,000 (loose pack)	30-253
		600V*	600V*	Box of 100	30-059
59B™	Black	Black 22 to 12 AWG	,34mm² to 4,0mm² Min. 2-,5mm²	Carton of 1,000	30-159
		Min. 2 #20 Max. 3 #14		Keg of 5,000 (loose pack)	30-259

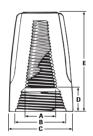
^{*1,000}V maximum in fixtures and signs







Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$



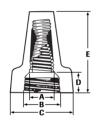
Model	A	В	C	D	E
71B®	<u>5/32</u>	<u>1/4</u>	<u>21/64</u>	<u>13/64</u>	<u>37/64</u>
Black	4	6.5	8	5	15
72B®	<u>13/64</u>	<u>5/16</u>	<u>25/64</u>	<u>15/64</u>	<u>45/64</u>
Black	5	8	10	6	18
73B®	<u>13/64</u>	<u>23/64</u>	<u>7/16</u>	<u>3/8</u>	<u>55/64</u>
Black	5	9	11	9.5	22
59B™	<u>13/64</u>	13/32	<u>31/64</u>	37/64	<u>1-1/16</u>
Black	5	10	12	14.5	27



Wing-Nut® Wire Connectors

- Three color-coded models cover a full range of wire sizes from 18 through 6 AWG
- Specially designed contoured wings provide a secure grip for extra leverage on maximum wire combinations
- Live-action spring expands to accept wire shape and size with no pre-twisting required
- Square-wire spring threads directly onto conductors for fast, secure connections
- Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Easily removed for repeat usage on same size or larger wire combinations
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E
- Classified in accordance with IEC Publications 998-2 and 998-2-4

Dimensions $\left(\frac{\text{Inches}}{mm}\right)$

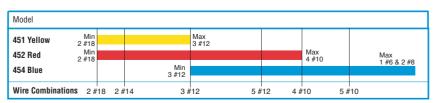


	\ IIII	II /			
Model	A	В	C	D	E
451®	<u>15/64</u>	<u>11/32</u>	<u>11/16</u>	<u>5/16</u>	<u>1-1/64</u>
	6	9	18	8	26
452®	<u>21/64</u>	<u>15/32</u>	15/16	<u>5/16</u>	<u>1-15/64</u>
	8.5	12	24	8	31.5
454®	<u>7/16</u>	<u>5/8</u>	<u>1-3/16</u>	<u>13/32</u>	<u>1-15/32</u>
	11	16	30	10.5	37.5
92®	21/64	13/32	29/32	<u>9/32</u>	<u>1-5/32</u>
	8.5	10.5	23	10	30



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.	
				Box of 100	30-451	
		600V*	600V*	Jar of 225	30-451J	
451®	Yellow	18 thru 10 AWG	,75mm² to 6,0mm²	Jar of 500	30-651J	
101	IGHOW	Min. 2 #18	Min. 2-,75mm ²	Carton of 1,000	30-551	
		Max. 4 #10	Max. 3-4,0mm ²	Keg of 5,000 (10 bags, 500 ea.)	30-651	
				Barrel of 35,000	30-851	
				Box of 100	30-452	
	Red A	Pod	600V*	600V*	Jar of 300	30-452J
452®			Pod	Pod.	18 thru 8 AWG	,75mm² to 10,0mm²
432	ned 📜	Min. 2 #18	Min. 2-,75mm²	Carton of 1,000	30-552	
		Max. 4 #10	Max. 4-6,0mm ²	Keg of 5,000 (10 bags, 500 ea.)	30-652	
				Barrel of 25,000	30-852	
454® Rhio	600V* 14 thru 6 AWG	600V* 2,5mm² to 16,0mm²	Box of 50	30-454		
TUT	454® Blue	Min. 3 #12 Max. 1 #6 & 2 #8		Keg of 2,500 (25 bags, 100 ea.)	30-654	

^{*1,000}V maximum in fixtures and signs











Greenie® Grounding Connector

- Designed for making ground connections and bonding non-metallic sheathed cable
- Contoured wings for maximum leverage
- Live-action, square-wire spring provides superior grounding connections
- Tough, UL 94V-2 flame-retardant shell
- UL Listed to 467 and CSA Certified to C22.2 #188; complies with Federal Specification W-S-610E



Model	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
			Box of 100	30-092
02®	14 thru 10 AWG	2,5mm² to 6,0mm² Min. 2-2,5mm²	Jar of 150	30-092J
92	92 [®] Min. 2 #14 Max. 3 #12 & 1 #14	Max. 3-4,0mm ² w/1-2,5mm ²	Carton of 1,000	30-192
			Keg of 5,000 (10 bags, 500 ea.)	30-292







Greenie® Grounding Connector fully meets the intent of the N.E.C. and specifically aids in compliance with the following:

ARTICLE 250: GROUNDING

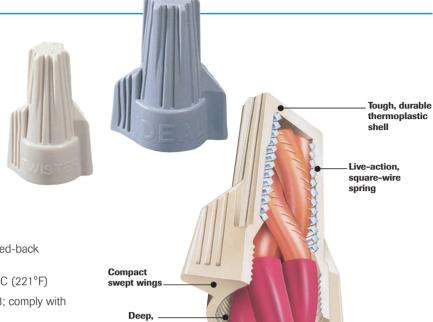
250-146 Connecting Receptacle Grounding Terminal to Box

250-148 Continuity and Attachment of **Equipment Grounding** Conductors to Boxes (B) Grounding continuity (D) Nonmetallic boxes



Twister® Wire Connectors

- Exceptional wire-range capacity three models handle wire combinations from as small as 22 AWG to as large as 6 AWG
- Ribbed cap provides a secure grip and fast fingertip starts
- Swept wings offer extra leverage and less effort for large wire combinations
- Hexagonal shape accommodates standard nutdriver for tool installation
- Live-action, square-wire spring locks onto wire for safe, secure connections
- Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E
- Classified in accordance with IEC Publications 998-2 and 998-2-4



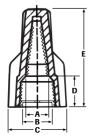
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.	
		600V*	600V*	Box of 100	30-340	
340®	Lt. Blue	22 thru 10 AWG	,34mm² to 4,0mm²	Bag of 500	30-640	
		Min. 2 #22 Max. 3 #12	Min. 2-,34mm² Max. 3-4,0mm²	Jar of 500	30-640J	
		IVIAX. 3 # 12	IVIAX. 3-4,011111	Barrel of 35,000	30-840	
				Box of 50	30-141	
		Tan 600V*	600V*	Box of 100	30-341	
341®	Tan		lan	****	Jar of 400	30-441J
		22 thru 8 AWG	22 thru 8 AWG ,34mm² to 10,0mm² Min. 3 #22 Min. 3-,34mm² Max. 3 #10 Max. 3-6,0mm²	Jar of 750	30-341J	
				Carton of 1,000	30-541	
		Wiαλ. 3 # 10		Keg of 5,000 (10 bags, 500 ea.)	30-641	
				Barrel of 25,000	30-841	
		600V*	7771		Box of 25	30-142
342®	Gray	18 thru 8 AWG Min. 3 #14	,75mm² to 10,0mm² Min. 3-2,5mm²	Box of 50	30-342	
		Max. 2 #8 w/2 #12	Max. 2-10,0mm ² w/2-4,0mm ²	Keg of 2,500 (10 bags, 250 ea.)	30-642	

threaded

skirt entry



Combination	2	#22	3#:	22	3	#14	3 #	12		3#10	2#8 w	/2#12
Cir Mil Area	1,280 (.65mm²)	1,920 (.	97mm²)	12,330 (6.24mm²)	19,590 (9	9.93mm²)	31,140	(15.78mm²)	46,080 (23mm²)
340®												
341®												
342®												
342°												



Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

Model	A	В	C	D	E
340 [®]	<u>5/16</u>	<u>3/8</u>	<u>39/64</u>	<u>27/64</u>	<u>63/64</u>
Lt. Blue	7.8	9.5	15.2	10.6	24.9
341 [®]	<u>17/64</u>	<u>29/64</u>	<u>23/32</u>	<u>23/64</u>	<u>1-1/8</u>
Tan	7	11.5	18	9	28.5
342®			<u>1.0</u>	<u>13/32</u>	<u>1-19/64</u>
Gray			25.5	10.5	33

^{*1,000}V maximum in fixtures and signs



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
	(Total	600V*	600V*	Jar of 250	30-244J
344	344 Red/Gray	22 to 8 AWG Min. 2 #18	,34mm² to 10,0mm² Min. 2-,75mm²	Jar of 500	30-644J
		Max. 4 #10	Max. 4-6,0mm ²	Keg of 2,500 (10 Bags of 250)	30-644

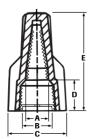
^{*1,000}V maximum in fixtures and signs







Combination	Min. 2 #18	4 #14	5 #12	Max. 4 #10
344®				



Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

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Model	Α	В	C	D	Е
344 Red/Gray	<u>11/32</u> 8.8	<u>1/2</u> 12.7	15/16 23.5	<u>7/16</u> 10.7	<u>1-1/4</u> 31.8



WeatherProof™ and UnderGround™ Wire Connectors

- Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486D for use in damp/wet locations or direct burial
- Easy to apply, pre-filled twist-on wire connectors
- Handles wire sizes from #20 to #6 copper conductors

The silicone-based sealant protects electrical connections against harsh conditions, eliminating the need for heat-shrink or excessive taping.



WeatherProof™ - suitable for interior and exterior electrical connections exposed to rain or damp conditions.





UnderGround[™] – suitable for use in a wide variety of direct burial and wet location electrical connections.

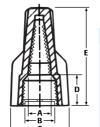
WeatherProof™ Wire Connectors

				V.	
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
		600V*	600V*	Card of 6	30-061
		22 to 14 AWG	,34mm² to 4,0mm²	Card of 25	30-161
61	Blue/Orange	Min. 2 #20	Min. 2-,5mm²	Box of 100	30-261
		Max. 2 #14	Max. 2-2,5mm ²	Box of 1,000	30-361
		600V*	600V*	Card of 5	30-062
		18 to 8 AWG	,75mm² to 10,0mm²	Card of 20	30-162
62	Blue/Red	Min. 2 #18	Min. 2-,75mm²	Box of 100	30-262
		Max. 3 #10	Max. 3-6,0mm ²	Box of 1,000	30-362
		600V*	600V*	Card of 3	30-063
		16 to 6 AWG	1,5mm² to 16,0mm²	Card of 15	30-163
63	Blue/Dr. Blue	Min. 2 #14	Min. 2-2,5mm²	Box of 100	30-263
		Max. 2 #8 & 1 #10	Max. 2-10,0mm ² w/1-6,0mm ²	Box of 1,000	30-363

UnderGround™ Wire Connectors

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.				
				Card of 2	30-060				
	Blue/Blue			Card of 10	30-760				
	Dido/ Dido	600V*	600V* 20 to 10 AWG Min. 1 #20 w/1 #18 Max. 1 #10 & 2 #12 600V* ,5mm² to 6,0mm² Min. 1-,5mm² w/1-,75mm² Max. 1-6,0mm² w/2-4,0mm²	Box of 100	30-260				
60		20 to 10 AWG		Box of 1,000	30-360				
				Card of 10 (yellow)	30-760				
	Yellow			Box of 25 (yellow)	30-160				
	TOTIOW			Box of 1,000 (yellow)	30-360				
								Box of 2,500 (yellow)	30-560
				Card of 2	30-064				
	Blue/Dk. Blue	600V* 18 to 8 AWG		****	Card of 10	30-764			
64	Dido, DR. Dido		,75mm to 10,0mm ²	Box of 50	30-264				
UT		Min. 2 #18	Min. 2-,75mm ²	Box of 1,000	30-364				
	Yellow	Max. 3 #10	Max. 3-6,0mm ²	Box of 25 (yellow)	30-164				

*1,000V maximum in fixtures and signs



Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

Model	A	В	C	D	E
61	3/16 (4,8)	5/16 (7,9)	21/32 (16,7)	13/32 (10,3)	29/32 (23,0)
62	9/32 (7,1)	1/2 (12,7)	15/16 (23,8)	19/32 (15,1)	1-11/32 (34,1)
63	3/8 (9,5)	19/32 (15,1)	1-1/16 (27,0)	23/32 (18,3)	1-19/32(40,5)
60	9/32 (7,1)	17/32 (13,5)	41/64 (16,2)	55/64 (22,0)	1-21/32 (42,0)
64	9/32 (7,1)	19/32 (15,1)	29/32 (23,0)	1-1/8 (28,6)	2-1/32 (51,6)

WARNING:

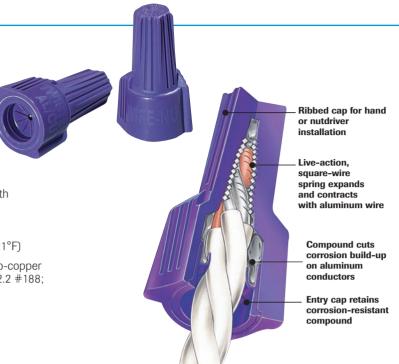
- 1. One time use only. Do not reuse.
- 2. Wiring must comply with all applicable electrical codes.
- 3. For use on copper wire only. Do not use on aluminum wire.
- 4. Not for use in continuous submersion applications.





Twister® Al/Cu Wire Connector

- Only aluminum-to-copper twist-on connector specifically designed to guarantee a secure connection while preventing aluminum corrosion
- Specially formulated corrosion- resistant compound cuts and penetrates corrosion build-up on aluminum conductors for increased conductivity and cooler connections
- Compact, one-piece design features ribbed cap, swept wings and hexagonal head for easy installation by hand or with standard nutdriver
- Live-action, square-wire spring expands and contracts with aluminum wire
- Deep skirt provides maximum dielectric strength
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Complies with N.E.C. Section #110-14(b) for aluminum-to-copper connections; UL Listed to 486C and CSA Certified to C22.2 #188; complies with Federal Specification W-S-610E
- UL Listed to 467 for grounding and bonding

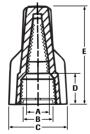


Model	Color	Wire Combinations	Quantity	Cat. No.				
	1 #10 Al solid w/1 or 2 #10 Cu solid 1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu 1 #10 Al w/1 or 2 #14 Cu	1 #10 AI w/1 2 #10 AI soli	1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu	1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu	1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu	1 #10 Al w/1 or 2 #12 Cu	Card of 2	30-065
		2 #10 Al solid w/1 #14 Cu 2 #12 Al solid w/1 #10 Cu 1 #12 Al solid w/1 or 2 #10 Cu 1 #12 Al stranded w/1 or 2 #10 Cu solid	Card of 10	30-765				
65	2 #12 AI solid w/1 #12 Cu 1 #12 AI w/1 or 2 #14 Cu 2 #12 AI solid w/1 #14 Cu	1 #12 Al w/1 or 2 #12 Cu 2 #12 Al solid w/1 #12 Cu 1 #12 Al w/1 or 2 #14 Cu	2 #12 Al solid w/1 #12 Cu 1 #12 Al w/1 or 2 #14 Cu	Card of 25	30-165			
		1 #10 AI w/1 or 2 #18 Cu 2 #10 AI solid w/1 #18 Cu 1 #12 AI w/1 or 2 #16 Cu 2 #12 AI solid w/1 #16 Cu	Box of 100	30-265				
		1 #10 Al w/1 or 2 #16 Cu 2 #10 Al solid w/1 #16 Cu 1 #12 Al w/1 or 2 #18 Cu 2 #12 Al solid w/1 #18 Cu	Carton of 1,000	30-365				

600V maximum building wire; 1,000V signs or lighting fixtures







Dimensions (Inches)

Model	A	В	C	D	E
65	<u>17/64</u>	<u>13/32</u>	<u>13/16</u>	<u>35/64</u>	<u>1-11/32</u>
	7	10.5	21	14	34

WARNING:

- One time use only. Do not reuse connector.
- Do not use on aluminum to aluminum wire combinations.
- 3. Wiring must comply with all applicable electrical codes.
- 4. Contact IDEAL for complete wire combination listing.



Wire-Nut® Wire Connector **Sockets**

- Speeds installation of Wire-Nut® Wire Connectors
- Fit any pneumatic or electric tool with a 1/4 in. chuck or drive socket



H-632

For Connector Model	Cat. No.
71B®, 71B® Black, 72B® & 72B® Black	30-903
73B [®] & 73B [®] Black	30-904
59B™	30-905
74B®, 76B® & 59B™	30-906

Wire-Nut® Wire Connector Wrench

Socket

Speeds installation of Wire-Nut® Wire ConnectorsExcellent leverage helps	
reduce fatigue	
For Connector Model	Cat. No.

73B®, 74B® & 76B® **Spin-Twist® Wire Connector**

- Speeds installation of IDEAL and **BUCHANAN Wire Connectors**
- For use with electric corded or cordless drill drivers
- 1/4 in. chuck fits most drills or drive sockets

For Connector Model	Cat. No.
Wire-Nut®, Wing-Nut®, Twister®, B-CAP® and WingTwist™	30-902

7-in-1 Twist-a-Nut™ **Screwdriver**

- Facilitate installation of connectors
- Universal Wire-Nut® Wrench in handle
- Accepts most twist-on connectors



9-in-1 Ratch-a-Nut™ **Screwdriver**

- Ratcheting wire connector wrench speeds installation of Wire Connectors
- Premium screwdriver ratchet mechanism can handle high torque without fatigue

Description	Cat. No.
9-in-1 Ratch-a-Nut™ Screwdriver	35-988

Ratch Wrench

- Speeds installation of B-CAP® Wire Connectors
- Either end accepts 1/4-in. drive for tight-spot wire splicing



For Connector Model	Cat. No.
B1, B2 & B4	BR-5

High-Speed Wire Connector Chuck

Cordless screwdriver adapter for installing B-CAP® Wire Connectors



Nutmaster® Nutdrivers

- Speeds installation of Twister® Wire Connectors
- Nickel/chrome plated to resist rust and corrosion
- Cushioned rubber grip



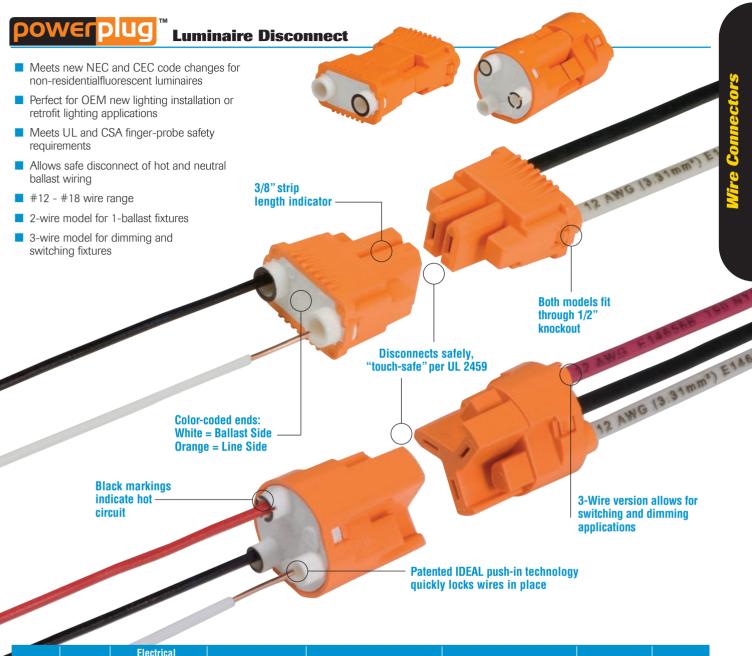
Twist-a-Nut™ Pro Electrician's Screwdrivers

- Convenient Wire-Nut® Wrench in end of handle
- Wire-looping hole in handle
- Vapor-blasted tip prevents plate chipping
- Tough, chrome vanadium steel shank
- Precision ground tip provides secure fit in screw slot



For Connector Model	Cat. No.
#2 x 6in. Robertson	30-330
1/4 in. x 4 in. Slotted	30-331
#2 x 4 in. Phillips	30-332
1/4 in. x 6 in. Slotted Cabinet Tip	30-333





	Model	Color	Electrical Rating	Wire Range	Line Side	Ballast Side	Quantity	Cat. No.
102 o 6 Amps/600		Solid	#12 -	- #1 8	Card of 25	30-372		
	6 Amps/600 Volts Max.	Stranded	#12 – #14	1 (≤19 str.)	Jar of 75	30-382J		
	2-Wire Orange 6 Amps/600 Volts Ma	o Amps/000 voits iviax.	Stranded Tin-Bonded	#12 − #14 (≤19 str.) #16 (≤26 str.)		Jar of 150	30-352J	
						:16 str.)	Box of 1,000	30-102
				Solid	#12 – #18	#18	Card of 20	30-383
	103	•		Stranded	#12 - #14 (≤19 str.)	None	Jar of 50	30-383J
	3-Wire Orange	Orange 6 Ai	6 Amps/600 Volts Max. Stranded Tin-Bonded #12 - #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)	Stranded Tin-Bonded	The state of the s	#18 (≤16 str.)	Jar of 100	30-353J
					Box of 1,000	30-103		

^{*1,000}V maximum in fixtures and signs









- Meets new NEC and CEC code changes for non-residential fluorescent luminaires
- Perfect for OEM new lighting installation or retrofit lighting applications
- Meets UL and CSA finger-probe safety requirements
- Allows safe disconnect of hot and neutral ballast wiring
- #18 wire
- 2-wire modelfor 1-ballast fixtures
- 3-wire model for dimming and switching fixtures



safely and easily

Pieces pull apart

Low-profile design -

Both 2-pole and 3-pole designs fit through 1/2" knockout

Both halves pass UL 2459 and CSA 182.3 finger probe requirements

Patented IDEAL push-in technology quickly locks wires in place

Model	Color	Electric Rating		Wire Range	Line Side	Ballast Side	Quantity	Cat. No.	
182	Orange	_		Solid	#	18	Box of 100	30-082	
2-Wire	Urange			Stranded Tin-Bonded	#18 (s	16 str.)	Box of 2,500	30-682	
183	Orange	1	3 Amps 1.3 Amps	120V 277V	Solid	#	18	Box of 100	30-083
3-Wire		0.75 Amps 347V 0.75 Amps 480V 0.60 Amps 600V	480V	Stranded Tin-Bonded	#18 (≤	:16 str.)	Box of 2,500	30-683	

^{*1,000}V maximum in fixtures and signs





In-Sure™ Push-In Wire Connectors

- No-twist connection reduces repetitive motion fatigue
- Low insertion force for fast and easy connections
- Compact size makes installation easy
- Clear shell gives visual verification of connection
- UL Listed to 486C and CSA Certified to C22.2 #188
- UL 467 Listed for grounding and bonding applications

- Accepts the following copper wire sizes
 - Solid

#20 - #12 solid

- Stranded

#16 - #14 (≤19 str.) #18 (≤7 str.)

- Stranded (Tin Bonded)

#14 - #12 (≤19 str.) #16 (≤26 str.)

#18 (≤16 str.)













			L	ength	Wi	dth	He	ight		
Model	Color	Ports	ln.	mm	ln.	mm	ln.	mm	Quantity	Cat. No.
									Box of 100	30-084
84	Red	2	.355	9.02	.434	11.02	.729	18.52	Jar of 300	30-084J
04	neu	2	.555	9.02	.434	11.02	.129	10.52	Box of 1,000	30-184
									Box of 5,000	30-684
									Box of 100	30-085
85	Orange	3	.355	9.02	.591	15.01	.729	18.52	Jar of 250	30-085J
00	Orango	0	.000	5.02	.001	10.01	.125	10.52	Box of 1,000	30-185
									Box of 5,000	30-685
									Box of 100	30-086
86	Yellow	4	.355	9.02	.748	18.99	.729	18.52	Jar of 200	30-086J
00	TGHOW		.000	3.02	.740	0 10.33	.123	10.32	Box of 1,000	30-186
										Box of 4,000
			.355	9.02	2 .907				Box of 50	30-087
87	Gray	5				23.03	.729	18.52	Jar of 150	30-087J
01	Gray		.555			23.03	.125	10.52	Box of 1,000	30-187
									Box of 5,000	30-687
									Box of 50	30-088
88	Blue	6 Stacked	.607	15.42	.603	15.32	.729	18.52	Jar of 100	30-088J
00	Diuc	U Slackcu	.001	13.42	.003	10.02	.123	.729 18.52	Box of 1,000	30-188
									Box of 5,000	30-688
									Box of 50	30-090
90	Black	8	.355	9.02	1.38	35.03	.717	18.21	Jar of 100	30-090J
50	DIACK	0	.555	5.02	1.30	33.03	.1 11	10.21	Box of 1,000	30-190
							Box of 2 000	30-690		

COPPER TO COPPER ONLY. Do not use on aluminum. Temperature rating: 105°C (221°F) maximum 600V maximum building wire, 1000V maximum signs or lighting fixtures

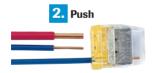




Installation as easy

as 1-2-3...









Term-a-Nut® Pigtail Wire Connectors

- Ultra-flexible 6-in. lead allows for easy positioning in outlet box reduces stress on device, wires and connection
- Wide range of wire combinations #18 through #12 solid or stranded conductors
- Brass adapter for strong, conductive transition from spring to
- Brass-alloy terminals with locking tabs for fast, efficient device connection
- UL 486A and UL 486C Listed and tested to CSA standard C22.2 #65 and C22.2 #188
- Wire Range: Red/Green Shell Min. 2 #18 w/1 #14, Max. 4 #12

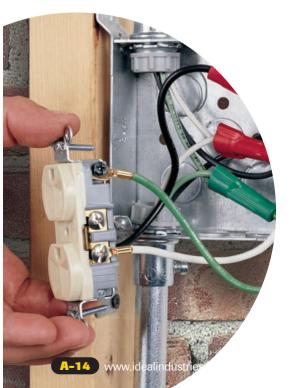


Shell Color	Wire Color	Terminal End	Quantity	Cat. No.
Red	White	#10 fork	25	30-3170
Red	White	#10 fork	10	30-3370
Red	Black	#10 fork	25	30-3171
Red	Black	#10 fork	10	30-3371
Red	White	Stripped end	25	30-3172
Red	Black	Stripped end	25	30-3173
Green	Green	#10 fork	25	30-3180
Green	Green	#10 fork	10	30-3380
MultiPak*	White/Black/Green	#10 fork	9	30-3181

^{*}Includes 3 red shells w/white wire, 3 red shells w/black wire, and 3 green shells w/green wire.







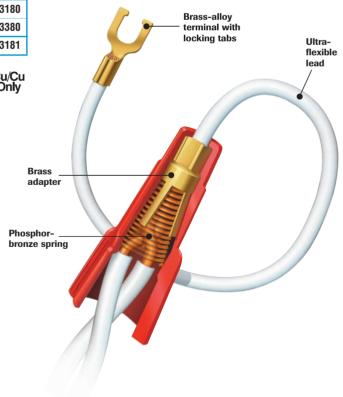
Pigtail Wire Connectors

- Ultra-flexible 8-in. lead allows for easy positioning in outlet box – reduces stress on device, wires and connection
- Brass-alloy terminals with locking tabs for fast, efficient device connection



Description	Wire Color	Quantity	Cat. No.
12 AWG stranded 8 in. w/#10 fork & stripped end	Black	Bag of 25	30-3471
12 AWG stranded 8 in. w/#10 fork & stripped end	White	Bag of 25	30-3470
12 AWG stranded 8 in. w/#10 fork & stripped end	Green	Bag of 25	30-3480

Custom tails available. Contact your IDEAL Sales Representative for further information.



Grounding Connectors

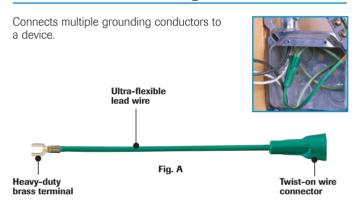
- Term-a-Nut® grounding connectors address specific requirements for grounding to steel outlet boxes and wiring multiple devices
- UL Listed to UL486C and UL467 (grounding and bonding)



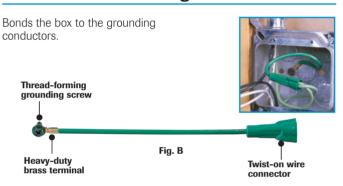


Term-a-Nut® Grounding Connectors	Quantity	Cat. No.	Fig.
Term-a-Nut® Grounding Connector, 12 AWG stranded, 6 in. tail w/#10 fork	Bag of 10	30-3380	А
Term-a-Nut® Grounding Connector, 12 AWG stranded, 6 in. tail w/#10 fork	Bag of 25	30-3180	А
Term-a-Nut® Grounding Connector, 12 AWG stranded, 6 in. tail w/#10 fork	Box of 100	30-3280	А
Term-a-Nut® Grounding Connector, 12 AWG stranded, 6 in. tail w/#10 fork	Box of 250	30-3680	А
Term-a-Nut® Grounding Connector, 12 AWG stranded w/#10 ring & ground screw	Bag of 25	30-3182	В
Term-a-Nut® Grounding Connector, 12 AWG stranded w/#10 ring & ground screw and 6 in. jumper w/#10 fork	Bag of 10	30-3386	С

Term-a-Nut® Grounding Connector



Term-a-Nut® Grounding Connector



Term-a-Nut® Grounding Connector

Connects grounding conductors to a device's grounding screw, connects grounding conductors to the mounting box and bonds the device to the box.



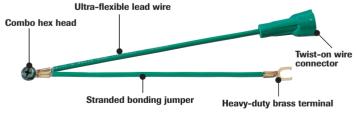
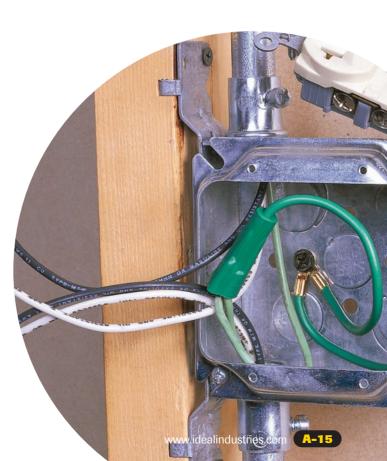


Fig. C

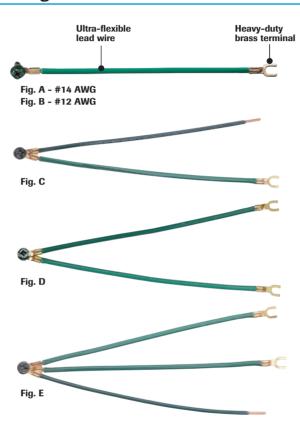




Grounding Accessories

- Solid and stranded pigtail lead wires are convenient for device grounding applications
- Grounding screws offer a unique thread-forming, hole-finding feature plus combination hex, Phillips, slotted and Robertson head

Grounding Tails - Stranded Wire



Stranded Wire Grounding Tails	Quantity	Cat. No.	Fig.
14 AWG stranded 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bag of 25	30-3183	А
12 AWG stranded, 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bag of 25	30-3184	В
12 AWG stranded, 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bundle of 100	30-3284	В
12 AWG solid tail, one stripped end, one end w/ground screw, joined to 12 AWG stranded tail at a ring terminal, w/fork terminal on second end	Bundle of 25	30-3286	_
12 AWG stranded, 2-wire tail joined w/#10 ring and ground screw, one stripped-end tail and one 10 fork tail	Bag of 25	30-3287	С
12 AWG stranded, 2-wire tail joined w/#10 ring and ground screw and two #10 fork tails	Bag of 25	30-3288	D
12 AWG stranded, 3-wire tail joined w/#10 ring and ground screw, one stripped-end tail and two 10 fork tails	Bag of 25	30-3289	E
12 AWG stranded, 7-3/4 in. tail w/#10 fork and #10 ring and ground screw	Plastic Box of 50	30-3385	В

Custom tails available. Contact your IDEAL Sales Representative for further information.



<u></u>		
Fig. E		

Solid Wire Grounding Tails	Quantity	Cat. No.	Fig.
Pail-o-Tails™ 12 AWG solid, 6.5 in. tail w/loop & ground screw and stripped end	Pail of 500 (Bundles of 100)	30-3365	А
14 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3390	E
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3392	С
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bundle of 50	30-3394	D
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Plastic box of 100	30-3399	С
12 AWG solid, 7 in. tail w/loop & ground screw and stripped end	Bag of 50	30-3407	В
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bag of 50	30-3410	D
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Bundle of 50	30-3496	С

Grounding Accessories



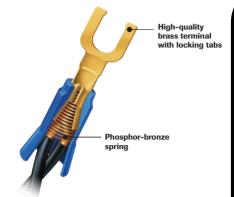


Grounding Accessories	Qty.	Cat. No.	Fig.
Ground Screw, thread-forming, hole-finding tip combination hex, Phillips, slotted and Robertson head	Pack of 50	30-3194	Α
Ground Screw, thread-forming, hole-finding tip combination hex, Phillips, slotted and Robertson head	Bag of 100	30-3294	А
Grounding clip – accepts 10, 12 or 14 AWG Wire	Pack of 100	30-3395	В
Ground Screw, thread-forming, hole-finding tip combination hex, Phillips, slotted and Robertson head	Jar of 400	30-3494	А

Term-a-Nut® Terminal Wire Connectors

- No tools required installs quickly without crimping easily removed for quick changes
- Use with single or multiple wires solid and/or stranded 22 to 12 AWG
- Highly conductive brass terminal and phosphor-bronze spring for maximum conductivity and smooth performance
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- UL 486A and UL 486C Listed and tested to CSA C22.2 #65 and C22.2 #188





Terminal Configurations	Qty./Clamshell	Cat. No.
#10 fork	25	30-3004
#8 fork	25	30-3014
.250 in. disconnect	25	30-3006
#10 ring	25	30-3012
#8 ring	25	30-3010
Assortment	40/kit*	30-3901

*Kit contains 8 each: 30-3004, 30-3014, 30-3006, 30-3012 and 30-3010.



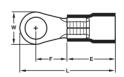
Crimp Terminals-Rings, Forks, Disconnects and Splices

- Butted seam-construction prevents splitting under maximum pressure
- Internal barrel serrations grip wires tightly to resist pull-out and reduce electrical resistance
- Tin-plated brass construction for corrosion resistance
- Shouldered barrel insulation quickly positions terminal for proper crimping
- Expanded insulation entry accommodates a wide variety of insulation diameters and provides additional insulation support
- Color-coded insulation and wire range stamped on terminal for easy identification

Vinyl Insulated Ring Terminals







Wire Range	Wire Range	Stud Size	Stud Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.			nsions hes)				ensions nm)		Ctn.	Cat.	Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	W	E	F	L	W	E	F	Qty.	No.	Qty.	No.
22 – 18	0.5 – 1.0	6 8 10 1/4	3.7 4.3 5.3 6.4	.157	4.0	.764 .819 .819 1.055	.260 .315 .315 .457	.394 .394 .394 .394	.248 .276 .276 .433	19.4 20.8 20.8 26.8	6.6 8.0 8.0 11.6	10.0 10.0 10.0 10.0	6.3 7.0 7.0 11.0	25 25 25 25	83-2121 83-2131 83-2141 83-2151	_ _ _ _	_ _ _ _
16 – 14	1.5 – 2.5	6 8 10 1/4	3.7 4.3 5.3 6.4	.177	4.5	.764 .858 .858 1.055	.260 .335 .374 .472	.394 .394 .394 .394	.248 .307 .287 .433	19.4 21.8 21.8 26.8	6.6 8.5 9.5 12.0	10.0 10.0 10.0 10.0	6.3 7.8 7.3 11.0	25 25 25 25	83-2221 83-2231 83-2241 83-2251	 1,000 	84-2241 —
12 – 10	4.0 - 6.0	8 10 1/4 5/16 3/8	4.3 5.3 6.4 8.4 10.5	.248	6.3	1.047 1.047 1.167 1.339 1.339	.374 .374 .472 .591 .591	.512 .512 .512 .512 .512	.358 .358 .413 .531 .531	26.6 26.6 29.5 34.0 34.0	9.5 9.5 12.0 15.0 15.0	13.0 13.0 13.0 13.0 13.0	9.1 9.1 10.5 13.5 13.5	25 25 25 25 25 25	83-2331 83-2341 83-2351 83-2361 83-2371	1,000 — —	84-2341 — — —

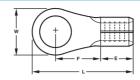
75° C/600 Volts max.





Non-Insulated Ring Terminals





Wire Range	Wire Range	Stud Size	Stud Size			nsions hes)*			Dimer (m	nsions m)**		Ctn.	Cat.	Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	L	W	E	F	L	W	Е	F	Qty.	No.	Qty.	No.
22 – 18	0.5 – 1.0	8 10	4.3 5.3	.622 .622	.315 .315	.189 .189	.276 .276	15.8 15.8	8,0 8.0	4.8 4.8	7.0 7.0	25 25	83-0131 83-0141	_	_
16 – 14	1.5 – 2.5	6 8 10	3.7 4.3 5.3	.567 .661 .661	.260 .335 .374	.189 .189 .189	.248 .307 .287	14.4 16.8 16.8	6.6 8.5 9.5	4.8 4.8 4.8	6.3 7.8 7.3	25 25 25	83-0221 83-0231 83-0241	 1,000	— — 84-0241
12 – 10	4.0 - 6.0	8 10 1/4	4.3 5.3 6.4	.772 .772 .886	.374 .374 .472	.236 .236 .236	.358 .358 .413	19.6 19.6 22.5	9.5 9.5 12.0	6.0 6.0 6.0	9.1 9.1 10.5	25 25 25	83-0331 83-0341 83-0351	1,000 —	84-0341 —
8	8.0	10 1/4 5/16 3/8	5.3 6.4 8.4 10.5	.937 .937 1.161 1.161	.472 .472 .591 .591	.337 .337 .337 .337	.366 .366 .543 .543	23.8 23.8 29.8 29.8	12.0 12.0 15.0 15.0	8.5 8.5 8.5 8.5	9.3 9.3 13.8 13.8	25 25 25 25 25	83-0421 83-0431 83-0441 83-0451	_ _ _ _	_ _ _
6	14.0	10 1/4 5/16 3/8	5.3 6.4 8.4 10.5	1.173 1.173 1.280 1.280	.472 .472 .630 .630	.413 .413 .413 .413	.524 .524 .559 .559	29.8 29.8 32.5 32.5	12.0 12.0 16.0 16.0	10.5 10.5 10.5 10.5	13.3 13.3 14.2 14.2	20 20 20 20	83-0511 83-0521 83-0531 83-0541	_ _ _ _	_ _ _ _
4	22.0	1/4 5/16 3/8	6.4 8.4 10.5	1.319 1.319 1.319	.650 .650 .650	.472 .472 .472	.531 .531 .531	33.5 33.5 33.5	16.5 16.5 16.5	12.0 12.0 12.0	13.5 13.5 13.5	20 20 20	83-0611 83-0621 83-0631	_ _ _	_ _ _

^{105°}C/600 Volts max.

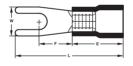




Vinyl Insulated Spade Terminals







Wire Range	Wire Range	Stud Size	Stud Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.			nsions hes)				ensions nm)		Ctn.	Cat.	Ctn.	Cat.
(AWĞ)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	W	E	F	L	W	E	F	Qty.	No.	Qty.	No.
22 – 18	0.5 – 1.0	6 8 10	3.7 4.3 5.3	.157	4.0	.827 .827 .827	.252 .283 .374	.394 .394 .394	.256 .256 .256	21.0 21.0 21.0	6.4 7.2 9.5	10.0 10.0 10.0	6.5 6.5 6.5	25 25 25	83-7111 83-7121 83-7131	1,000 — —	84-7111 — —
16 – 14	1.5 – 2.5	6 8 10	3.7 4.3 5.3	.177	4.5	.827 .827 .827	.236 .283 .366	.394 .394 .394	.256 .256 .256	21.0 21.0 21.0	6.0 7.2 9.3	10.0 10.0 10.0	6.5 6.5 6.5	25 25 25	83-7151 83-7161 83-7171	 1,000 1,000	84-7161 84-7171
12 – 10	4.0 - 6.0	6 8 10 1/4	3.7 4.3 5.3 6.4	.248	6.3	1.004 1.004 1.004 1.240	.327 .283 .283 .472	.512 .512 .512 .512	.276 .357 .354 472	25.5 25.5 25.5 31.5	8.3 9.0 9.0	13.0 13.0 13.0 13.0	7.0 7.0 7.0 12.0	25 25 25 25	83-7201 83-7211 83-7221 83-7231	— 500	84-7221

75° C/600 Volts max.



Crimp Tools







#30-518 Tool w/die #30-519 Replacement die

#83-005

#88-843

Insulated and Non-Insulated Terminals, Splices and Disconnects (#22 - #10 AWG) are UL Listed when used with IDEAL Crimp Tool #30-518 (Replacement Die #30-519).

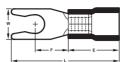
Non-Insulated Ring Terminals (#8 - #4 AWG) are UL Listed when used with IDEAL Crimp Tool #83-005 or 88-843.

Non-Insulated Disconnects, Splices and Vinyl Insulated Parallel Splices (#22 - #10 AWG) are not UL Listed; recommended IDEAL Crimp Tool #30-518. Non-Insulated Splices (#8 - #4 AWG) are not UL Listed, recommended IDEAL Crimp Tool #83-005 or #88-843.

^{*}Plus or minus .020 in.

^{**}Plus or minus .50 in.





Vinyl Insulated Snap Spade Terminals

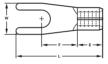
Wire Range	Wire Wire Range	Stud Size	Stud Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.			nsions ches)			Dimer (m	nsions m)		Ctn.	
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	W	E	F	L	W	Е	F	Qty.	Cat. No.
22 – 18	0.5 – 1.0	6 8 10	3.7 4.3 5.3	.134	4.0	.827 .827 .827	.252 .283 .319	.394 .394 .394	.256 .256 .256	21.0 21.0 21.0	6.4 7.2 8.1	10.0 10.0 10.0	6.5 6.5 6.5	25 25 25	83-7011 83-7021 83-7031
16 – 14	1.5 – 2.5	6 8 10	3.7 4.3 5.3	.161	4.5	.827 .827 .827	.236 .319 .319	.394 .394 .394	.256 .256 .256	21.0 21.0 21.0	6.0 8.1 8.1	10.0 10.0 10.0	6.5 6.5 6.5	25 25 25	83-7051 83-7061 83-7071
12 – 10	4.0 - 6.0	8 10 1/4	4.3 5.3 6.4	.248	6.3	.992 .992 1.240	.327 .354 .472	.512 .512 .512	.276 .276 .472	25.2 25.2 31.5	8.3 9.0 12.0	13.0 13.0 13.0	7.0 7.0 12.0	25 25 25	83-7081 83-7091 83-7101

75° C/600 Volts max.



Non-Insulated Spade Terminals





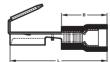
Wire Range	Wire Range	Stud Size	Stud Size			nsions hes)				nsions 1m)		Ctn.	Cat.	Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	L	W	Е	F	L	W	E	F	Qty.	No.	Qty.	No.
22 – 18	0.5 - 1.0	6 8 10	3.7 4.3 5.3	.630 .630 .630	.252 .283 .319	.189 .189 .189	.256 .256 .256	16.0 16.0 16.0	6.4 7.2 8.1	4.8 4.8 4.8	6.5 6.5 6.5	25 25 25	83-6111 83-6121 83-6131	_	
16 – 14	1.5 – 2.5	8 10	4.3 5.3	.630 .630	.283 .366	.189 .189	.256 .256	16.0 16.0	7.2 9.3	4.8 4.8	6.5 6.5	25 25	83-6161 83-6171	1,000	— 84-6171
12 – 10	4.0 - 6.0	8 10 1/4	4.3 5.3 6.4	.728 .728 .965	.354 .354 .472	.236 .236 .236	.276 .276 .472	18.5 18.5 24.5	9.0 9.0 12.0	6.0 6.0 6.0	7.0 7.0 12.0	25 25 25	83-6211 83-6221 83-6231	_ _ _	_ _ _

105° C/600 Volts max.



Vinyl Insulated Multi-Stack Disconnects





Wire Range	Wire Range	Tab Size	Tab Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.			Dimer (Incl						Dimer (m		;		Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	В	W	F	W1	F1	L	В	W	F	W1	F1	Qty.	No.
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.886	.413	.260	.315	.250	.323	22.5	10.5	6.6	8.0	6.35	8.2	25	83-9611
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.886	.413	.260	.315	.250	.323	22.5	10.5	6.6	8.0	6.35	8.2	25	83-9621
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.260	.315	.250	.323	22.5	13.0	6.6	8.0	6.35	8.2	25	83-9631

75° C/300 Volts max.





Vinyl Insulated Female Disconnects



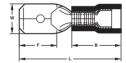
Wire Range	Wire Range	Tab Size	Tab Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.		Dimer (Incl				Dimer (m			Ctn.	Cat.	Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	В	W	F	L	В	W	L	Qty.	No.	Qty.	No.
22 – 18	0.5 – 1.0	.110 x .020	2.8 x 0.5	.150	3.8	.728	.413	.126	.256	18.5	10.5	3.2	6.5	25	83-9511	_	_
16 – 14	1.5 – 2.5	.110 x .020	2.8 x 0.5	.185	4.7	.748	.413	.126	.256	19.0	10.5	3.2	6.5	25	83-9521	_	_
22 – 18	0.5 – 1.0	.187 x .020	4.75 x 0.5	.150	3.8	.764	.413	.197	.252	19.4	10.5	5.0	6.4	25	83-9541	_	_
16 – 14	1.5 – 2.5	.187 x .020	4.75 x 0.5	.185	4.7	.764	.413	.197	.252	19.4	10.5	5.0	6.4	25	83-9551	_	_
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.819	.413	.260	.287	20.8	10.5	6.6	7.3	25	83-9571	_	_
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.819	.413	.260	.287	20.8	10.5	6.6	7.3	25	83-9581	500	84-9581
14 – 12	2.5 – 4.0	.250 x .032	6.35 x 0.8	.244	6.2	.917	.512	.260	.287	23.3	13.0	6.6	7.3	25	83-9591	_	_
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.917	.512	.260	.287	23.3	13.0	6.6	7.3	25	83-9601	_	_

75° C/300 Volts max.



Vinyl Insulated Male Disconnects





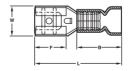
Wire Range	Wire Wire Range	Tab Size	Tab Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.		Dimer (Incl	nsions hes)				nsions m)		Ctn.	
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Qty.	Cat. No.
22 – 18	0.5 - 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.858	.413	.250	.303	21.8	10.5	6.35	7.7	25	83-9971
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.858	.413	.250	.303	21.8	10.5	6.35	7.7	25	83-9981
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.250	.303	24.0	13.0	6.35	7.7	25	83-9991

75° C/300 Volts max.



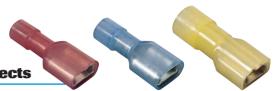
Non-Insulated Female Disconnects

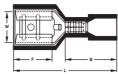




Wire Range	Wire Range	Tab Size	Tab Size			nsions hes)				nsions m)			
(AWG)	(mm²)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Ctn. Qty.	Cat. No.
22 – 18	0.5 - 1.0	.110 x .020	2.8 x 0.5	.630	.189	.126	.256	16.0	4.8	3.2	6.5	25	83-9411
16 – 14	1.5 – 2.5	.110 x .020	2.8 x 0.5	.630	.189	.126	.256	16.0	4.8	3.2	6.5	25	83-9421
22 – 18	0.5 - 1.25	.187 x .020	4.75 x 0.5	.630	.189	.197	.252	16.0	4.8	5.0	6.4	25	83-9441
16 – 14	1.5 – 2.5	.187 x .020	4.75 x 0.5	.630	.189	.197	.252	16.0	4.8	5.0	6.4	25	83-9451
22 – 18	0.5 - 1.25	.250 x .032	6.35 x 0.8	.630	.189	.260	.287	16.0	4.8	6.6	7.3	25	83-9471
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.630	.189	.260	.287	16.0	4.8	6.6	7.3	25	83-9481
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.728	.236	.260	.287	18.5	6.0	6.6	7.3	25	83-9501

105° C/300 Volts max.





Nylon Fully-Insulated Female Disconnects

Nylon Fully-Insulated Male Disconnects

Wire Range	Wire Range	Tab Size	Tab Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.		Dimen (Incl				Dimen (m			Ctn.	Cat.	Ctn.	Cat.
(AWG)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	В	W	F	L	В	W	L	Qty.	No.	Qty.	No.
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.866	.433	.260	.287	22.0	11.0	6.6	7.3	25	83-9771	_	_
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.866	.433	.260	.287	22.0	11.0	6.6	7.3	25	83-9781	1,000	84-9781
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.260	.287	24.0	13.0	6.6	7.3	25	83-9791	500	84-9791

105° C/300 Volts max.

774A Listed Pressure Wire Connector



Wire Range	Wire Wire Range	Tab Size	Tab Size	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.		Dimen (Incl					nsions m)		Ctn.	
(AWĞ)	(mm²)	(Inches)	(mm)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Qty.	Cat. No.
22 – 18	0.5 - 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.906	.433	.250	.303	23.0	11.0	6.35	7.7	25	83-9911
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.945	.433	.250	.303	24.0	11.0	6.35	7.7	25	83-9921
12 – 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.984	.512	.250	.303	25.0	13.0	6.35	7.7	25	83-9931

105° C/300 Volts max.



Vinyl Insulated Bullet Disconnects



¥ W ‡	
	F — E —

Wire Range	Wire Range	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.	Dimensions (Inches)		Dimensions (mm)							
(AWG)	(mm²)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Ctn. Qty.	Cat. No.
22 – 18	0.5 - 1.0	.150	3.8	.846	.413	.157	.335	21.5	10.5	4.0	8.5	25	83-8001
16 – 14	1.5 – 2.5	.185	4.7	.846	.413	.157	.335	21.5	10.5	4.0	8.5	25	83-8011

75° C/300 Volts max.



774A Listed Pressure Wire Connector

Vinyl Fully-Insulated Receptacle Disconnects

Wire Range	Wire Range	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.	Dimensions (Inches)			Dimensions (mm)						
(AWG)	(mm²)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Ctn. Qty.	Cat. No.
22 – 18	0.5 - 1.0	.150	3.8	.917	.413	.153	.287	23.3	10.5	3.9	7.3	25	83-8101
16 – 14	1.5 – 2.5	.185	4.7	.917	.413	.153	.287	23.3	10.5	3.9	7.3	25	83-8111

75° C/300 Volts max.



Non-Insulated Flag Female Disconnect



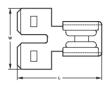


Wire Range	Wire Range	Tab Size	Tab Size		Dimensions Dimensions (Inches) (mm)								
(AWG)	(mm²)	(Inches)	(mm)	L	В	W	F	L	В	W	F	Ctn. Qty.	Cat. No.
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.551	.291	.260	299	14.0	7.4	6.6	7.6	25	83-9401

105° C/300 Volts max.

Disconnect Adapter - Male to Female (2-1)



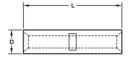


Tab Size	Tab Size	Dimensions (Inches)		Dimer (m	nsions m)		
(Inches)	(mm²)	L	W	L	W	Ctn. Qty.	Cat. No.
.250 x .032	6.35 x 0.8	.551	.260	14.0	6.6	25	83-9801

105° C/300 Volts max.

Non-Insulated Butt Splices



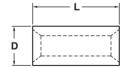


Wire Range	Wire Range		nsions hes)		nsions m)				
(AWG)	(mm²)	L	D	L	D	Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
22 – 18	0.5 – 1.0	.591	.130	15.0	3.3	25	83-9001	_	_
16 – 14	1.5 – 2.5	.591	.154	15.0	3.9	25	83-9011	_	84-9011
12 – 10	4.0 - 6.0	.591	.213	15.0	5.4	25	83-9021	500	84-9021
8	8.0	.827	.276	21.0	7.0	25	83-9031	250	84-9031
6	14.0	1.024	.350	26.0	8.9	20	83-9041	_	_
4	22.0	1.142	.445	29.0	11.3	20	83-9051	—	_

105° C/600 Volts max.

Non-Insulated Parallel Splices





Wire Range	Wire Range		nsions hes)		nsions m)				
(AWG)	(mm²)	L	D	L	D	Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
22 – 18	0.5 – 1.0	.315	.130	8.0	3.3	25	83-9071	_	_
16 – 14	1.5 – 2.5	.315	.154	8.0	3.9	25	83-9081	1,000	84-9081
12 – 10	4.0 - 6.0	.335	.213	8.5	5.4	25	83-9091	_	84-9091

105° C/600 Volts max.



Vinyl Insulated Butt Splices

Wire Range	Wire Range	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.		nsions hes)		nsions im)				
(AWG)	(mm²)	(Inches)	(Inches)	L	D	L	D	Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
22 – 18	0.5 - 1.25	.157	4.0	.986	.067	24.6	1.7	25	83-9281	1,000	84-9281
16 – 14	1.5 – 2.5	.177	4.5	.986	.091	24.6	2.3	25	83-9291	1,000	84-9291
12 – 10	4.0 - 6.0	.248	6.3	1.043	.134	26.5	3.4	25	83-9301	500	84-9301

^{75°} C/600 Volts max.

Listed U Cu Only CON Pressure Wire Connector

Vinyl Insulated Parallel Splices



Wire Range	Wire Range	Max. Wire Ins. Dia.	Max. Wire Ins. Dia.	Dimensions (Inches)		Dimer (m	nsions m)		
(AWG)	(mm²)	(Inches)	(mm)	L	W	L	W	Ctn. Qty.	Cat. No.
22 – 18	0.5 - 1.0	.157	4.0	.512	.067	13.0	1.7	25	83-9351
16 – 14	1.5 – 2.5	.177	4.5	.512	.091	13.0	2.3	25	83-9361
12 – 10	4.0 - 6.0	.248	6.3	.591	.134	15.0	3.4	25	83-9371

^{75°}C/600 Volts max.

Tap Splice Connectors



	Wire Range	Wire Range		Dimensions (Inches)			nsions m)		
	(AWG)	(mm²)	Color	L	W	L	W	Ctn. Qty.	Cat. No.
	22 – 18	0.5 - 1.0	Red	1.063	.787	27.0	20.0	25	83-3261
Г	16 – 14	1.5 – 2.5	Blue	1.063	.787	27.0	20.0	25	83-3271
	12 – 10	4.0 - 6.0	Yellow	1.358	.807	34.5	20.5	25	83-3281

105°C/600 Volts max.



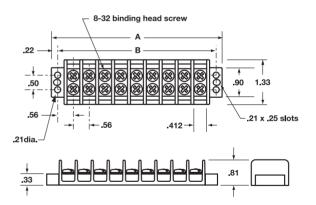
Terminal Strips

- Heavy-duty, corrosion-resistant screws, surface plates and optional hardware
- Accessory hardware provides a variety of termination options
- Available cover helps prevent contact with live terminals
- Rugged polyester thermoplastic base (UL Rated 94V-O)
- Operating temperature rated from 130°C (260°F) to -40°C (-40°F)
- UL Recognized (E62622) and CSA Certified (LR15364)

89-200 Series Terminal Strips 30A/600V* UL/CSA

- .562 in. (14.28mm) center spacing
- Accepts wire sizes from 22 through 10 AWG Cu
- #8-32 philslot, zinc-plated steel terminal screws (Recommended torque: 16 in. lb.)





No. of	Dime (Inc		
Poles	A	В	Cat. No.
2	2.13	1.69	89-202
3	2.69	2.25	89-203
4	3.25	2.81	89-204
6	4.37	3.94	89-206
8	5.50	5.06	89-208
10	6.62	6.19	89-210
12	7.75	7.31	89-212

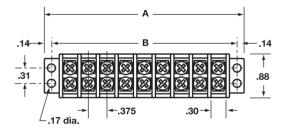
*Max. electrical rating 30A/250V when used with optional quick-connects.



89-300 Series Terminal Strips 15A/250V UL, 15A/150V** CSA**

- .375 in. (9.52mm) center spacing
- Accepts wire sizes from 22 through 14 AWG Cu
- #6-32 philslot, zinc-plated steel terminal screws (Recommended torque: 9 in. lb.)







No. of	Dime (Inc		
Poles	A	В	Cat. No.
2	1.40	1.12	89-302
4	2.16	1.88	89-304
6	2.90	2.62	89-306
8	3.66	3.38	89-308
10	4.40	4.12	89-310
12	5.16	4.88	89-312

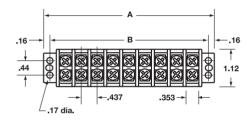
^{**}Max. electrical rating 15A/125V when used with optional quick-connects.



89-400 Series Terminal Strips 30A/300V UL/CSA

- .437 in. (11.10mm) center spacing
- Accepts wire sizes from 22 through 12 AWG Cu
- #6-32 philslot, zinc-plated steel terminal screws (Recommended torque: 9 in. - lb.)





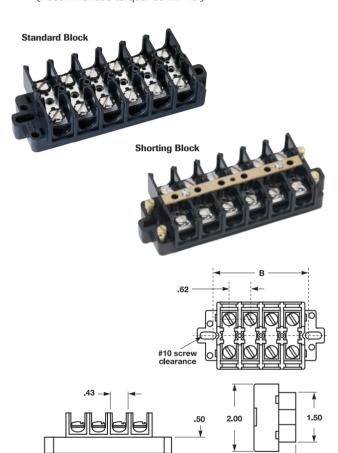


No. of	Dime (Inc		
Poles	Α	В	Cat. No.
2	1.63	1.31	89-402
4	2.51	2.18	89-404
6	3.38	3.06	89-406
8	4.25	3.93	89-408
10	5.13	4.81	89-410
12	6.00	5.68	89-412



89-500 Series Terminal Strips 60A/600V* UL/CSA

- Available in standard or shorting-block style
- .625 in. (15.88mm) center spacing
- Accepts wire sizes from 22 through 6 AWG Cu
- #10-32 slotted, nickel plated brass terminal screws (Recommended torque: 20 in. - lb.)



No. of		nsions hes)	Standard Block	Shorting Block
Poles	A	В	Cat. No.	Cat. No.
4	3.75	2.87	89-504	89-505
6	5.00	4.12	89-506	89-507
8	6.25	5.37	89-508	89-509
12	8.75	7.87	89-512	89-513

*Max. electrical rating 60A/600V achieved only when used with #6 AWG copper wire crimped to ring terminal.



1.25-



Covers

■ Helps prevent contact with live terminals





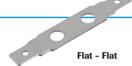
	For Use With Termin	al Strip Series		
	89-200	89-300	89-400	89-500
No. of Circuits	Clear Cat. No.	Clear Cat. No.	Clear Cat. No.	Clear Cat. No.
2	89-233	89-334	89-434	_
3	89-234	_	_	_
4	89-235	89-335	89-435	89-514
6	89-236	89-336	89-436	89-516
8	89-237	89-337	89-437	89-518
10	89-238	89-338	89-438	_
12	89-239	89-339	89-439	89-520

Quick Connects

■ Allows fast, flexible circuit changes

For Use With				
Terminal Strip Series	Tab Size (Inches)	Qty	Flat - None Cat. No.	Flat - Flat Cat. No.
89-300	.187 x .020	10 pcs.	89-314	89-317
89-200 & 89-400	.250 x .031	10 pcs.	89-414	89-417





Jumpers



Flat Slip-on



Over Barrier Slip-on



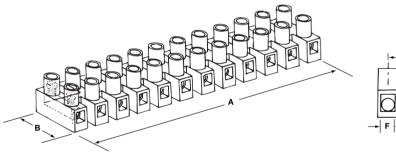
Flat 12-Circuit

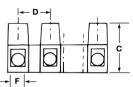
Jumpers					0	
Provides easy connection of multiple circuits		My.				
		Flat Slip-on	Over Barrier Slip-on	Flat 12-Circ	uit	1
For Use With						
Terminal Strip Series	Center Spacing (Inches)	Oty.	Flat Slip-on Cat. No.	Over Barrier Slip-on Cat. No.	Flat 12-Circuit Cat. No.	
89-200	.562	10 pcs.	89-229	89-224	_	
03 200	.002	100 pcs.	89-230	_	_	
89-300	.375	10 pcs.	89-323	89-324	_	
09-300	89-300 .375	100 pcs.	89-330		_	
90, 400	89-400 .437	10 pcs.	89-423	89-424	_	
09-400		100 pcs.	89-430	_	_	
89-500	.625	2 pcs.	_	_	89-525	

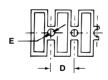
Barrier Strips

- Recessed screws and tubular contacts provide added safety and help prevent short circuits
- Tubular contacts connect stripped, un-terminated solid or stranded wire directly to each contact
- Integrated wire protectors prevent twisting and breakage of stranded wire during connection
- Modular 12-circuit design can be cut into smaller sections, or stacked end-to-end
- Rugged nylon construction, UL 94V2
- Operating temperature rated to 105°C (221°F)









Barrier Strips

Electrical	Wire Range	No. of	Torque	Model	Dimensions Model (Inches)		Dimensions (mm)										
Ratings	(AWG)	Circuits	inlb.	No.	Α	В	C	D	E	F*	A	В	C	D	E	F**	Cat. No.
20A/600V UL	22 - 12	40	0.5	DAADO	0.707	0.000	0.570	0.045	0.444	0.440	00.0	47.0	445	0.0	0.0	0.0	00.000
10A/400V CSA	20 - 18	12	3.5	PA8DS	3.787	0.669	0.570	0.315	0.114	0.110	96.2	17.0	14.5	8.0	2.9	2.8	89-608
30A/600V UL	22 - 10	40	4.4	DATODO	4.000	0.705	0.070	0.004	0.4.40	0.404	447.0	00.0	47.0	40.0	0.0	0.4	00.040
20A/400V CSA	18 - 14	12	4.4	PA10DS	4.626	0.795	0.670	0.394	0.142	0.134	117.0	20.2	17.0	10.0	3.6	3.4	89-610
35A/600V UL/CUL	22 - 10	12	7.0	PA12DS	5.540	0.937	0.748	0.472	0.154	0.154	140.7	23.8	19.0	12.0	3.9	3.9	89-612
50A/600V UL/CUL	20 - 8	12	12.0	PA14DS	6.220	1.008	0.992	0.531	0.173	0.189	158.0	25.6	25.2	13.5	4.4	4.8	89-614

^{*}Plus or minus .004 in.





^{**}Plus or minus 0.1mm



Crimp Connectors



- Designed for making fast, permanent, pressure-type connections
- Long, zinc-plated steel sleeves maximize contact area with conductors
- Will not vibrate loose when securely crimped
- Steel crimp connectors are UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E.

Steel Crimp Connectors

Model	Wire Combination Range	Quantity	Cat. No.
	600V	Box of 100	30-410
410	18 thru 10 AWG Min. 1 #14 & 1 #18	Carton of 1,000	30-510
	Max. 2 #10 & 2 #14	Keg of 10,000	30-610
	600V	Box of 40	30-401
411	18 thru 8 AWG Min. 3 #12	Box of 50	30-411
	Max. 4 #10	Carton of 1,000	30-511
	600V	Box of 20	30-402
412	18 thru 4 AWG Min. 1 #14 & 1 #16	Box of 50	30-412
	Max. 2 #8 & 1 #6	Carton of 1,000	30-512

Dimensions (Inches)



•		
Model	A	В
410 Steel	3/8	13/64
411 Steel	5/8	1/4
412 Steel	51/64	19/64







IDEAL hand tools U.L. listed for Model 410, 411, 412. Crimps: 30-420, 30-425, 30-429, 30-430.

Wrap-Cap® Insulators

Provide high dielectric and physical protection for UL Listed, non-insulated pressure-type wire connectors



Unique design completely covers splice – insulates both around and between wires



- Reusable and easy to install
- UL Listed and CSA Certified for 600V maximum building wiring (1,000V maximum for fixtures and signs); temperature rated at 75°C (167°F) maximum

Model	Description	Quantity	Cat. No.
		Box of 20	30-405
415	Insulator for Model	Box of 100	30-415
410	410 sleeves	Carton of 1,000	30-515
		Keg of 10,000	30-615
	Inculator for Model 411	Box of 10	30-407
417	Insulator for Model 411 & 412 sleeves	Box of 50	30-417
	X 712 3155753	Carton of 1,000	30-517

Dimensions (Inches)



Pre-Insulated Crimp Connectors

- Three models cover a wide range of wire combinations from 22 AWG stranded through 8 AWG stranded
- Compact design fits easily into tight locations
- Flared skirt protects against turned-back strands
- Beveled opening eases wire entry
- UL Listed and CSA Certified for 600V maximum building wiring (1,000V maximum for fixtures and signs); temperature rated at 105°C (221°F) maximum

Model	Wire Combination Range	Quantity	Cat. No.
40	600V*	1,000	30-245
48	Min. 2 #22 Max. 1 #14 w/2 #18	10,000	30-645
40	600V*	1,000	30-249
49	Min. 1 #22 w/1 #18 Max. 1 #12 w/1 #16	10,000	30-649
NO O	600V*	1,000	30-148
NC-8	Min. 4 #w16 Max. 1 #12 w/4 #14	5,000	30-648

^{*1,000}V maximum in fixtures and signs







Set-Screw Wire Connectors



- Eliminates need for restripping wire each time connection is disturbed
- Solid brass sleeves in three sizes handle 18 through 12 AWG wires
- Set-screw easily and securely applies maximum compression to conductors to ensure a vibration-resistant splice
- Permits fast visual inspection of splice
- Tough, flame-retardant shell rated at 150°C (302°F)
- UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E

Model	Wire Combination Range	Quantity	Cat. No.
40	300V 22 thru 16 AWG	Box of 100	30-210
10	Min. 1 #20 w/1 #22 Max. 2 #14 w/1 #16	Carton of 1,000	30-310
44	600V 22 thru 14 AWG	Box of 100	30-211
11	Min. 1 #14 w/1 #20 Max. 3 #14 w/2 #18	Carton of 1,000	30-311
00	600V 20 thru 10 AWG	Box of 100	30-222
22	Min. 1 #16 w/3 #18 Max. 2 #10 w/1 #12	Carton of 1,000	30-322





Dimensions (Inches)

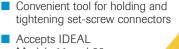
Ins	ert	Shell			
Model	Α	В	C	D	E
10	1/8	5/16	1/2	19/64	45/64
11	3/16	3/8	33/64	13/32	63/64
22	1/4	1/2	11/16	13/32	1-1/64







Set-Screw Holder







For Connector Models	Cat. No.
11 & 22	K-2422

Noalox® Anti-Oxidant



- Anti-oxidant and anti-seizing compound improves efficiency and service life of aluminum electrical applications
- Suspended zinc particles penetrate and cut aluminum oxide
- Provides additional inner-strand and inner-conductor current paths for improved conductivity and cooler connections
- Carrier material excludes air to prevent further oxidation
- For use with all types of pressure-type wire connectors including screw-on, tap, service entrance and split-bolt
- Reduces galling and seizing on aluminum conduit joints promotes good ground continuity

Description	Cat. No.
1/2-oz. Tube	30-024
4-oz. Squeeze bottle	30-026
8-oz. Squeeze bottle	30-030
8-oz. Brush cap	30-031
1-gal. Bucket	30-032
5-gal. Bucket	30-040



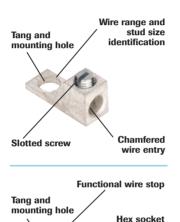


Powr-Connect™ Mechanical Lugs

- Chamfered entry for faster, more reliable connections
- Uniform plating resists corrosion, reduces contact resistance and provides maximum conductivity
- UL Listed at 600V acceptable for use through 2,000V
- Can be used through 8,000V if installed in accordance with National Electric Code Section 310-6 (UL Green Book)
- UL Listed to 486B for dual-rated connectors UL Listed to 486A for copper connectors
- Meets ANSI C119.4 requirements

Dual-Rated (Al/Cu) Single-Barrel Connectors

- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU)







	Wire	Dime	nsions (I	Stud	Cat.	
Model	Range	L	W	Н	Size (In.)	No.
LA-50-1 Narrow type -	6 – 14 AWG – special mounting requirements	1-1/16	3/8	1/2	1/4	87-002
LA-2	2 – 14 AWG	1-5/32	1/2	9/16	1/4	87-005
LA-1/0	1/0 – 14 AWG	1-15/32	5/8	25/32	1/4	87-007
LA-1/0*	1/0 – 14 AWG	1-15/32	5/8	25/32	3/8	87-008
LA-2/0	2/0 – 14 AWG	1-15/32	5/8	25/32	1/4	87-009
LA-2/0*	2/0 – 14 AWG	1-15/32	5/8	23/32	3/5	87-010
LA-250	250 KCMIL – 6 AWG	2	1	1-1/8	5/16	87-011
LA-250*	250 KCMIL – 6 AWG	2	1	1-1/8	3/8	87-012
LA-350	350 KCMIL – 6 AWG	2-1/4	1-1/8	1-1/4	3/8	87-015
LA-350*	350 KCMIL – 6 AWG	2-1/4	1-1/8	1-1/4	1/2	87-016
LA-500	500 KCMIL – 4 AWG	2-13/16	1-1/4	1-9/16	3/8	87-017
LA-500*	500 KCMIL – 4 AWG	2-13/16	1-1/2	1-9/16	1/2	87-018

^{*}Larger mounting hole





Dual-Rated (Al/Cu) Two-Barrel Connectors

■ Electro tin-plated, high-strength aluminum alloy construction

screw

Chamfered

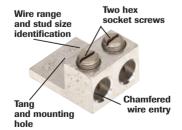
wire entry

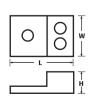
■ UL 486B Listed AL9CU

Wire range

and stud size

identification





	wire	Difficusions (inches)			Stua	Cat.	
Model	Range	L	W	Н	Size (In.)	No.	ı
L2A1-1/0	1/0 – 14 AWG (2)	1-15/32	1-1/8	25/32	1/4	87-040	
L2A1-2/0	2/0 - 14 AWG (2)	1-15/32	1-1/4	25/32	1/4	87-042	ı
L2A1-250	250 KCMIL – 6 AWG (2)	2-9/16	1-5/8	1-3/16	3/8	87-044	
L2A1-350 L2A1-600	350 KCMIL – 6 AWG (2) 600 KCMIL – 2 AWG (2)	2-7/8 3-3/16	1-15/16 2-13/32	1-1/4 1-9/16	1/2 1/2	87-046 87-048	

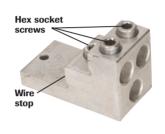




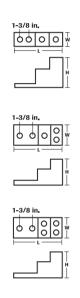
Dual-Rated (Al/Cu) Panel-Board Connectors

- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU)









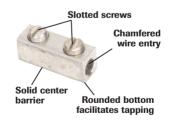
	Wire	Dime	ensions (Ir	iches)	Stud	Cat.
Model	Range	L	W	Н	Size (In.)	No.
PV2-600	600 KCMIL – 2 AWG	4-29/32	1-1/2	3	3/8	87-126
PV2-750	750 KCMIL – 1/0 AWG	4-29/32	1-9/16	3	3/8	87-129
PV3-600	600 KCMIL – 2 AWG	4-29/32	2-1/2	3	3/8	87-132
PV3-750	750 KCMIL – 1/0 AWG	4-29/32	2-27/32	3	3/8	87-135
PV4-600	600 KCMIL – 2 AWG	4-29/32	2-1/2	3	3/8	87-138
PV4-750	750 KCMIL – 3/0 AWG	4-29/32	2-27/32	3	3/8	87-141

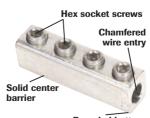




Dual-Rated (Al/Cu) Splicer Reducers

- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU)





Rounded bottom facilitates tapping





	Wire	Dime	nsions (Ir	Stud	Cat.	
Model	Range	L	W	Н	Size (In.)	No.
SR-2* SR-1/0*	2 – 14 AWG 1/0 – 14 AWG	1-3/8 1-29/32	1/2 3/4	9/16 3/4	5/8 7/8	87-143 87-144
SR-250	250 KCMIL – 6 AWG	3-15/16	1	1-1/8	1-15/16	87-145

*Slotted screws





Powr-Connect™ Tap Connectors

Dual-Rated (Al/Cu) Parallel-Tap Connectors with Covers

- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU) 105°C, 600V max.



	Wire Ra	Wire Range Strip Dimensions (Inches)		ches)	Cat.		
Model	Main	Тар	Length (In.)	L	W	Н	No.
GP-2C	2 – 12 AWG	4 – 14 AWG	5/8	2-7/32	1-29/32	1-7/64	87-180
GP-1/0C	1/0 – 2 AWG	1/0 – 14 AWG	3/4	2-5/8	2-5/32	1-1/4	87-182
GP-250C	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	3-7/16	2-7/8	1-5/8	87-186
GP-350C	350 KCMIL – 4/0 AWG	350 KCMIL – 6 AWG	1-1/4	3-3/4	3-3/16	1-3/4	87-190
GP-500C	500 – 350 KCMIL	500 KCMIL – 2 AWG	1-3/8	4-3/8	3-5/16	2-3/32	87-194





Dual-Rated (Al/Cu) Parallel-Tap Connectors without Covers

- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU)





	wire Kange		Strip	Dimensions (inches)			Cat.
Model	Main	Тар	Length (In.)	L	W	H	No.
GP-2 GP-1/0	2 – 12 AWG 1/0 – 2 AWG	4 – 14 AWG 1/0 – 14 AWG	5/8 3/4	1-25/64 1-3/4	5/8 3/4	7/8 1	87-150 87-152
GP-250	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	2-9/32	1-1/16	1-5/16	87-156

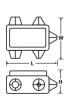




Insulating Covers for Parallel-Tap Connectors

- 600V maximum
- 105°C maximum temperature





	For Use		Dimensions (Inches)			Cat.
Model	With:	Color	L	W	Н	No.
GIC-2	87-150	Yellow	2-7/32	1-29/32	1-7/64	87-370
GIC-1/0	87-152	Gray	2-5/8	2-5/32	1-1/4	87-372
GIC-250	87-150	Red	3-7/16	2-7/8	1-5/8	87-374



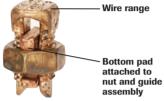
Powr-Connect™ Grounding Connectors

- Designed to maintain proper contact and alignment between ground and wire rod
- Brass or plated screws for corrosion resistance
- High-strength copper alloy construction

Type K Split Bolts for Copper Connections

- High-strength copper alloy construction (nut, bolt and body)
- UL 486A Listed





WIRE CONN			
Model	Range for Equal Run & Tap	Min. Tap with Max. Run	Cat. No.
K-10	10 str. – 12 str.	16 str.	87-650
K-8	8 str. – 10 str.	14 str.	87-651
K-6	6 sol. – 8 str.	14 str.	87-652
K-4	4 sol. – 8 str.	14 str.	87-653
K-3	2 sol. – 6 str.	14 str	87-654
K-2	2 str. – 6 str.	14 str.	87-655
K-1/0	1/0 str. — 4 str.	14 str.	87-656
K-2/0	2/0 str. – 2 str.	14 str.	87-657
K-3/0	3/0 str. – 1 str.	8 sol.	87-658



Dual-Rated (Al/Cu) Type AS Split Bolts

	R	Run		Tap	
Model	Max.	Min.	Max.	Min.	Cat. No.
AS-6	6 str.	10 sol.	6 str.	10 sol.	87-681
AS-4	4 str.	8 sol.	4 str.	10 sol.	87-682
AS-2	2 str.	6 sol.	2 str.	8 str.	87-683
AS-1/0	1/0 str.	2 compact	1/0 str.	8 sol.	87-685
AS-2/0	2/0 str.	2 compact	2/0 str.	8 str.	87-686
AS-4/0	4/0 str.	2 compact	4/0 str.	6 str.	87-687

Heavy-Duty Clamps









	Rod	Wire Dimensions (Inches)		ches)	Cat.	
Model	Dia. (In.)	Range	Н	W	L	No.
WB58	5/8	1/0 – 8	2-1/8	7/8	1	87-958

High-Strength Ground Clamps







	Pipe	Wire Dimensions (nsions (In	iches)	Cat.
Model	Size (In.)	Range	Н	W	L	No.
J	1/2 – 1	2 – 10	2-3/4	2-3/8	3/4	87-563
J2	1-1/4 – 2	2 – 10	3-3/4	3-5/8	7/8	87-564

Dual-Rated (Al/Cu) Street-Light Connector Kit with Cover



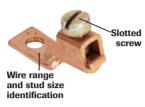
	Wire	No. of	Dime	nsions (li	nches)	Cat.
Model	Range	Cond.	L	W	Н	No.
SLK-1/0	1/0 – 14 AWG	3	2	1-3/16	2-3/16	88-100

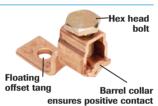


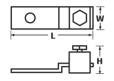
Powr-Connect™ Mechanical Solderless Lugs

Single-Hole Solderless Lugs for Copper Conductors (Offset)

- Electrolytic copper construction
- UL 486A listed







	Wire	Stud	Dime	Cat.		
Model	Range	Size (In.)	L	W	Н	No.
CF-25*	10 – 14 AWG	#8	1	5/16	3/8	87-700
CF-35	6 – 14 AWG	3/16	1-3/32	3/8	3/4	87-701
CF-70	4 – 14 AWG	1/4	1-5/16	1/2	13/16	87-702
CF-90	2 – 8 AWG	1/4	1-15/32	1/2	1	87-703
CF-125	1/0 – 2 AWG	1/4	1-13/16	5/8	1-11/32	87-704
CF-225	4/0 – 2 AWG	5/16	2-5/8	1	1-13/16	87-704
01 220	7/0 Z /\\V	0/10	2 3/0	'	1 10/10	07 700

*Not CSA Certified



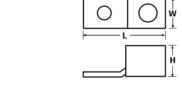


Single-Hole Solderless Lugs for Copper Conductors

- Electrolytic copper construction
- UL 486A Listed

Hex socket screw





	Wire	Stud	Dime	Dimensions (Inches)			
Model	Range	Size (In.)	L	W	Н	No.	
FT-65	6 – 14 AWG	3/16	1	3/8	3/4	87-736	
FT-90	1/0 – 14 AWG	1/4	1-17/64	5/8	1	87-738	





Dual-Rated (AI/Cu) Collar Connectors



10-32 tapped mounting hole with 0.229 in. square boss for bottom mounting to electrical devices or bus bars





	Wire	Dimensions (Inches)		Cat.	
Model	Range	L	W	Н	No.
CA-60**	2 – 14 AWG	9/16	15/32	15/32	87-583
CA-110*	1/0 – 14 AWG	19/32	17/32	5/8	87-585

*Successfully tested to AL9CU **Successfully tested to AL7CU





BUCHANAN

Wire Termination





Our **wedge-edge** expanding spring is specially designed for faster pull-up and quick connections. It also accommodates a wide range of wire gauges.



reliable connections, while the spring-loaded, cam-actuated design fits a wide range of connectors.



The comprehensive line of **Buchanan** sectional terminal blocks offers a wide range of block configurations, mounting options and contact styles accommodating wire sizes from 30 AWG to 250 MCM.



The **B2 B-CAP*** Wire Connector is the universal connector that accepts the widest range of wire combinations. Plus, the Classic Fin™ ergonomic design fits easily in tight electrical boxes.



B-CAP® Wire Connectors

- Three color-coded models cover a full range of wire sizes from 22 AWG through 6 AWG
- Classic Fin[™] design provides secure grip for extra leverage on maximum wire combinations
- Live-action spring expands to accept wire shape and size no pre-twisting required
- Square-wire spring threads directly onto conductors for fast, secure connections
- Deep skirt protects against flash-over and turned-back strands for maximum dielectric protection
- Easily removed for repeat usage on same size or larger wire combinations
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Green-B® designed for making ground connections and bonding non-metallic sheathed cable
- UL 486C Listed (Green-B® UL 467 Listed) and CSA 22.2 #188 Certified; comply with Federal Specification -S-610E





Contoured Classic Fin™

Deep skirt, wide

throat



Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

Model	A	В
B1	31/32 24.5	<u>15/32</u> 12
B2	<u>1-5/32</u> 29.5	<u>9/16</u> 14
B4	<u>1-1/2</u> 38	<u>3/4</u> 19
BGR	<u>1-5/32</u> 29.5	<u>9/16</u> 14



wire spring

Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	Cat. No.
				100 / Box	B1-1
		600V*	600V*	250 / Jar	B1-250JR
B1	Yellow	22 to 10 AWG	,34mm² to 6,0mm²	500 / Jar	B1-500JR
51	1011011	Min. 3 #20	Min. 3-,5mm ²	2,500 / Bucket (5 bags, 500 ea.)	B1-25
		Max. 3 #12	Max. 3-4,0mm ²	5,000 / Keg (10 bags, 500 ea.)	B1-B
				Barrel of 25,000	B1-SK
	Red	600V* 22 to 8 AWG ,34mm² to 10,0mm² Min. 2 #18 Min. 2-,75mm² Max. 5 #12 Max. 5-4,0mm²		100 / Box	B2-1
			,34mm² to 10,0mm² Min. 2-,75mm²	350 / Jar	B2-350JR
B2				500 / Jar	B2-500JR
DZ				2,500 / Bucket (5 bags, 500 ea.)	B2-25
				5,000 / Keg (10 bags, 500 ea.)	B2-B
				Barrel of 25,000	B2-SK
		600V*	600V*	50 / Box	B4-1
B4	Blue-Gray	Blue-Gray 14 to 6 AWG Min. 2 #12 Max. 2 #6	2,5mm² to 16,0mm² Min. 2-4,0mm²	1,000 / Bucket (4 bags, 250 ea.)	B4-25
			Max. 2-16,0mm ²	2,500 / Keg (10 bags, 250 ea.)	B4-B
		14 to 10 AWG	2,5mm² to 6,0mm²	50 / Box	BGR-1
BGR	Green	Min. 2 #14	Min. 2-2,5mm ²	2,500 / Bucket (10 bags, 250 ea.)	BGR-25
		Max. 5 #12	Max. 5-4,0mm ²	5,000 / Keg (20 bags, 250 ea.)	BGR-B

^{*1,000}V maximum in fixtures and signs



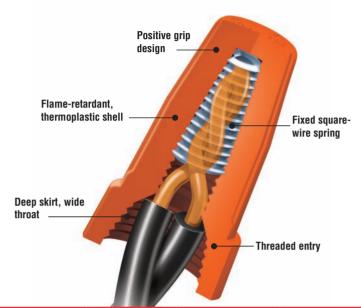




WireTwist™ Wire Connectors

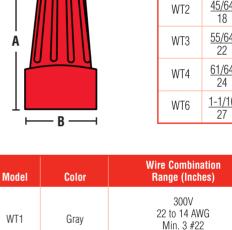
- Five color-coded models cover common construction wire ranges
- Ribbed cap provides positive grip for fast, easy installation
- Fixed, square-wire spring threads itself creating a secure pressure grip
- Deep, wide-throated skirt protects against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- UL 486C Listed and CSA 22.2 #188 Certified





Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$

Model	A	В
WT1	<u>37/64</u> 15	<u>21/64</u> 8
WT2	<u>45/64</u> 18	<u>25/64</u> 10
WT3	<u>55/64</u> 22	<u>7/16</u> 11
WT4	<u>61/64</u> 24	<u>35/64</u> 14
WT6	<u>1-1/16</u> 27	<u>21/32</u> 17



Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	BUCHANAN Cat. No.	IDEAL Cat. No.
		300V	300V	100 / Box	WT1-1	30-WT1C
WT1	Gray	22 to 14 AWG Min. 3 #22	,34mm² to 2,5mm² Min. 3-,34mm²	500 / Bag	WT1-B	30-WT1B
		Max. 2 #16	Max. 2-1,5mm²	50,000 / Barrel	_	30-891
		300V	300V	100 / Box	WT2-1	30-WT2C
WT2	Blue	22 to 14 AWG Min. 3 #20	,34mm² to 2,5mm² Min. 3-,50mm²	500 / Bag	WT2-B	30-WT2B
		Max. 3 #16	Max. 3-1,5mm ²	50,000 / Barrel	_	30-892
		600V* 22 to 14 AWG Min. 2 #18 Max. 2 #14	600V* ,34mm² to 2,5mm² Min. 2-,75mm²	100 / Box	WT3-1	30-WT3C
WT3	Orange			500 / Bag	WT3-B	30-WT3B
			Max. 2-2,5mm ²	50,000 / Barrel	_	30-893
		600V*	600V*	100 / Box	WT4-1	30-WT4C
WT4	Yellow	22 to 10 AWG Min. 3 #20	,75mm² to 6,0mm² Min. 3-,50mm² Max. 2-4,0mm²	500 / Bag	WT4-B	30-WT4B
		Max. 2 #12		30,000 / Barrel	_	30-894
		600V*	600V*	100 / Box	WT6-1	30-WT6C
WT6	Red	Min. 2 #14 Min. 2-2,5mm²	250 / Bag	WT6-B	30-WT6B	
		Max. 4 #12	Max. 4-4,0mm ²	20,000 / Barrel	_	30-896

^{*1,000}V maximum in fixtures and signs







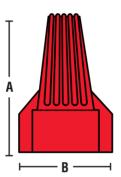
^{**}Includes 5 each of WT1, WT2, WT3, WT4 and WT6 WireTwist™ Wire Connectors



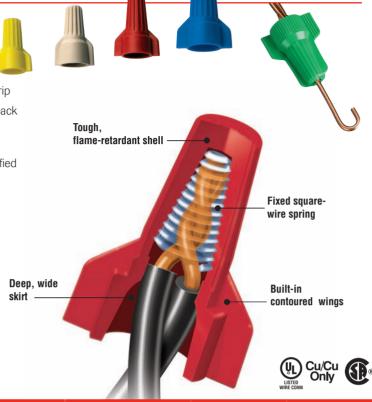
WingTwist™ Wire Connectors

- Four color-coded models cover common construction wire ranges; green model designed for ground connections
- Unique contoured wing design acts as built-in wrench providing maximum torque with minimum effort
- Fixed, square-wire spring threads itself creating secure pressure grip
- Deep, wide-throated skirt protects against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL 94V-2 flame retardant shell rated at 105°C (221°F)
- UL 486C Listed (WGR UL 467 Listed) and CSA C22.2 #188 Certified

Dimensions $\left(\frac{\text{Inches}}{\text{mm}}\right)$



Model	A	В
WT51	<u>1-1/32</u> 26	<u>23/32</u> 18
WT52	<u>1-1/4</u> 32	<u>29/32</u> 23
WT53	<u>1-5/16</u> 33	<u>1</u> 25
WT54	<u>1-9/16</u> 40	<u>1-15/64</u> 31
WGR	<u>1-5/32</u> 29.5	<u>7/8</u> 22



		Wire Combination	Wire Combination		BUCHANAN	IDEAL
Model	Color	Range (Inches)	Range (mm)	Quantity / Package	Cat. No.	Cat. No.
		600V*	600V*	100 / Box	WT51-1	30-WT51C
NT51	Yellow	18 to 10 AWG Min. 2 #18	,75mm² to 6,0mm² Min. 275mm²	500 / Bag	WT51-B	30-WT51B
		Max. 3 #12	Max. 3-4,0mm ²	500 / Jar	WT51-500JR	30-WT51J
				25,000 / Barrel	WT51-SK	_
				30,000 / Barrel	_	30-886
				100 / Box	WT41-1	30-WT41C
/T41	Tan	600V* 22 to 10 AWG	600V* ,34mm² to 6,0mm²	500 / Bag	WT41-B	30-WT41B
WITI	ιαιι	Min. 2 #20	Min. 2-0,5mm ²	500 / Jar	WT41-500JR	30-WT41J
		Max. 3 #10 Solid	Max. 3-6,0mm ²	25,000 / Barrel	WT41-SK	30-885
WT52		600V* 18 to 10 AWG Min. 2 #14 Max. 5 #12	600V* ,75mm² to 6,0mm² Min. 2-2,5mm² Max. 5-4,0mm²	100 / Box	WT52-1	30-WT52C
	Red			500 / Bag	WT52-B	30-WT52B
	riou			500 / Jar	WT52-500JR	30-WT52J
				25,000 / Barrel	WT52-SK	_
				20,000 / Barrel	_	30-887
/T54	Blue	600V* 14 to 6 AWG	600V* 2,5mm² to 16,0mm²	50 / Box	WT54-1	30-WT54C
/13 4	Diue	Min. 3 #12 Max. 2 #6	Min. 3-4,0mm ² Max. 2-16,0mm ²	100 / Bag	WT54-B	30-WT54B
		44 + 40 MMO	0.5 0.0 0.0	50 / Box	WGR-1	30-WGRC
VGR	Green	14 to 10 AWG Min. 2 #14	2,5mm² to 6,0mm² Min. 2-2,5mm²	250 / Bag	WGR-B	30-WGRB
v UIII	arour	Max. 5 #12	Max. 5-4,0mm ²	500 / Jar	WGR-500JR	30-WGRJ
				25,000 / Barrel	WGR-SK	30-890
WT5	Assortment**	See WT51 & WT52 above	See WT51 & WT52 above	(75 Yellow, 75 Red)/Jar	WT5152JR	_

^{*1,000}V maximum in fixtures and signs

^{**}Includes 75 each of WT51 and WT52 WingTwist™ Wire Connectors

Splice Cap Crimp Connectors

- Designed for making fast, permanent, pressuretype connections
- Solid copper sleeves require less crimping pressure
- Resist corrosion in harsh environments
- Tin-plated steel sleeves also available
- UL 486C Listed and CSA C22.2 #188 Certified; comply with Federal Specification W-S-61D

	Description	Wire Combination Range (Inches)	Quantity / Package	Cat. No.
ſ	Copper Crimp	600V* 18 to 10 AWG	100 / Box	2006S
	Connector Min. 2 #18 Max. 4 #12	1,000 / Bag	2006SB	
	Copper Crimp	600V* 14 to 4 AWG	50 / Box	2011\$
	Connector Min. 2 #10 Max. 2 #6	=	500 / Bag	2011SB

^{*1,000}V maximum in fixtures and signs







Splice Cap Insulators

- Convenient, safe and fast installation
- Snap-on nylon construction
- Rated at 105°C (221°F) 600V (1,000V maximum in fixtures and signs)



Termend® Lugs

- Convenient, safe and fast installation
- One size fits 16 AWG through 8 AWG solid or stranded wire
- Available in ring, spade and locking spade



Tongue Type	Stud Size	Quantity / Package	Cat. No.
Ring	10	50 / Box	16-8-10
Ring	1/4	50 / Box	16-8-1/4
Spade	10	50 / Box	16-8-10\$
Locking Spade	10	50 / Box	16-8-10L

Four-Way Crimp Tool

- Patented design ensures even compression and reliable connectors
- Spring-loaded, cam-actuated plungers
- Fingertip adjustment for different connector sizes

Description	Triann:	Cat. No.
Four-Way Crimp Tool		C-24

NM Cable Connectors

- Unique snap-in detents hold fitting firmly in place – eliminates the need for screws, lock nuts or clamps
- UL Listed and CSA Certified for 14/2, 14/3, 12/2, 12/3, 10/2, 10/3 and for double-runs of 14/2 and 12/2 NM sheathed cable



Description	Quantity	Cat. No.
12 in. NM Cable Connector	100	1050

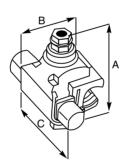
B-TAP® Insulation-Piercing Tap Connectors

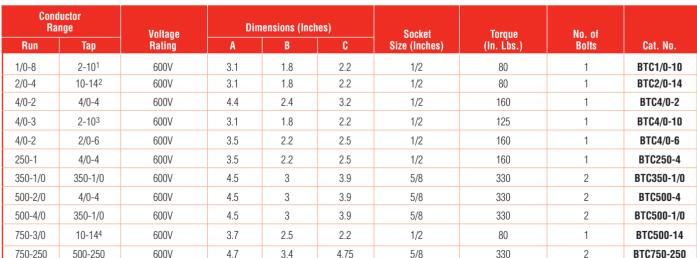
- Eliminates split bolts and tape
- Easy two-minute installation requires only box/socket wrench
- Installs on energized systems eliminating costly power shutdowns
- Self-sealing, grease-filled end-cap ensures safe, weather-tight connection
- Unique turbo spacer keeps connector wide open for quick and easy installation
- Torque-regulating nut breaks off when proper tension is reached
- Full-line is 600V dual-rated,194°F (90°C)



B-Tap® Wire Range Chart

1 1/0 2/0 3/0 4/0 250 300 350 400 500 750 Cat. No Main: 1/0 - 8 BTC1/0-10 Tap: 2 - 10 Main: 2/0 - 4 BTC2/0-14 Tap: 10 - 14 Main: 4/0 - 2 BTC4/0-4 Tap: 4/0 - 4 Main: 4/0 - 3 BTC4/0-10 Tap: 2 - 10 Main: 4/0 - 2 BTC4/0-6 Tap: 2/0 - 6 Main: 250 - 1 BTC250-4 Tap: 4/0 - 4 Main: 350 - 1/0 BTC350-1/0 Tap: 350 - 1/0 Main: 500 - 2/0 BTC500-4 Tap: 4/0 - 4 Main: 500 - 4/0 BTC500-1/0 Tap: 350 - 1/0 Main: 750 - 3/0 BTC500-14 Main: 750 - 250 BTC750-250 Tap: 500 - 250 Main





Includes BTC 1/0-10, BTC 2/0-14, BTC 4/0-2, BTC 4/0-10, BTC 4/0-6, BTC 250-4, BTC 350-1/0, BTC 500-4 & BTC 500-1/0

BTCA-2





Assortment*

¹ Tap #2 - #10 Cu solid/stranded; #2 - #10 Al stranded ² Tap #10 - #14 Cu solid/stranded; #10 - #14 Al stranded

³ Tap #2 - #10 Cu solid/stranded; #2 - #8 Al stranded ⁴ Tap #10 - #14 Cu solid/stranded; #10 - #12 Al stranded

Waterproof Breakaway Steetlight Connector & Splice Insulating Kits

- Safe and easy installation in five minutes or less
- No special equipment necessary requires only a knife, wire stripper and crimp
- Unique wire entry port, cut-off design accommodates industry's widest range of insulation diameters
- Fewer parts than competitive brands for better waterproof protection
- Built-in break-away design eliminates de-energization of complete circuits
- Safely separates upon impact without breaking wires eliminates potential danger and electrical shock (breakaway models)
- Unique 2-in-1 one-piece crimp barrel accommodates industry's widest range of conductors (breakaway models)
- Spring-loaded contacts compensate for thermal expansion to maintain integrity of waterproof connection (breakaway models)



Application Guide

Examples of Several Kit Configurations

For Poles with Transformer Bases, Standard Bases and Junction Boxes

Underground Feed Phase to Phase

Configurations

- D65 dual in-line for phases and two 84 or 84S kits for taps
- Two 82 or 82S Y-Tap Kits for phases and taps
- Two BTS4 B-CAP® Twist & Seal Wire Connectors

Comments Recommended

Cost-effective

Non-breakaway, small gauge (8 AWG and above).

See Wire Connector section.

Underground Feed Phase to Neutral

Configurations

- . D65PN dual in-line for phase and neutral and Two 84 or 84S kits for tap
- . One 82 or 82S Y-Tap Kit for phase and tap and one 83 or 83S Y-Tap Kit for neutral and tap
- Two BTS4 B-CAP® Twist and Seal Wire Connectors

Comments

Recommended configuration

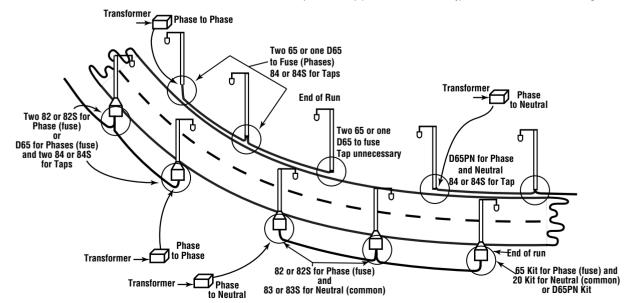
Cost-effective

Non-breakaway, small gauge (8 AWG and above). See Wire Connector section.

For Lights Mounted to Utility Poles, etc...

Overhead Feed

. Two B-Tap® Insulation Piercing Connectors for phase and/or tap (for insulated conductors only) Recommended configuration, see B-Tap® Insulation Piercing Connectors in this catalog.



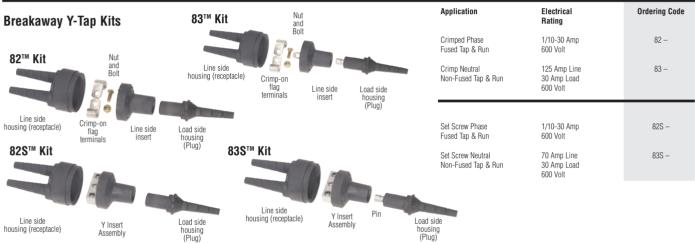


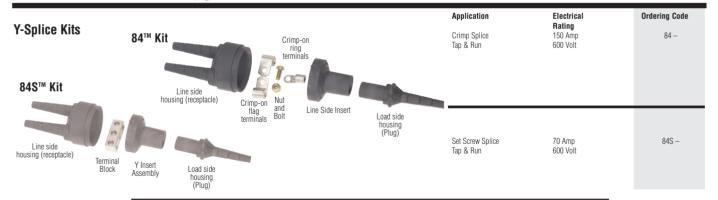
Ordering Information

Use the following chart and table to determine the correct part number by choosing model, line side, and load side ordering codes from the shaded columns. See example below, right (Page A-45).



	M O D E L	
Application	Electrical Rating	Ordering Code
In-Line Neutral Non-Fused Breakaway	30 Amp 600 Volt	20 –
In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	65 —
Dual In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	D65 —
Dual In-Line Phase & Neutral Fused Breakaway	1/10-30 Amp Phase 30 Amp Neutral 600 Volt	D65PN —





			ensions o			es 5 & 5A and Fixture \	Approx. [Diameter in Inc	
Size		RHH,		THHW	THHN	XHH	Compact A	L with Insulat	ion Types:
(AWG)	RH	RHW-2, RHW	TW	THW,THW-2	THWN,THWN-2	XHHW, XHHW-2	THW,THHW	THHN	XHHW
14	0.163	0.193	0.133	0.163	0.111	0.133	-	-	-
12	0.182	0.212	0.152	0.182	0.130	0.152	_	-	_
10	0.236	0.236	0.176	0.206	0.164	0.176	_	-	_
8	0.326	0.326	0.236	0.266	0.216	0.236	0.255	_	0.224
6	0.364	0.364	0.304	0.304	0.254	0.274	0.290	0.240	0.260
4	0.412	0.412	0.352	0.352	0.324	0.322	0.335	0.305	0.305
3	0.440	0.440	0.380	0.380	0.352	0.350	_	_	_
2	0.472	0.472	0.412	0.412	0.384	0.382	0.390	0.360	0.360
1	0.582	0.582	0.492	0.492	0.446	0.442	0.465	0.415	0.415
1/0	0.622	0.622	0.532	0.532	0.486	0.482	0.500	0.450	0.450

National Electric Code®, Copyright © 1996, National Fire Protection Association, Quincy MA 02269

	LINI	E S	I D E			L 0	A D	S I D E
culation ameter Range ches)	Stranded* Conductor Size (AWG) 12-6	Type Copp	er Crimp	Ordering Code (CHOOSE 1) U -	Insulation Diameter Range (Inches)	Equivalent Conductor (See Table)	Stranded* Conductor Size (AWG) 12-6	Type Copper Crimp
20430	12-6	Alum	inum Crimp	UA –	.120430	1	12-6	Aluminum Crimp
	4 or 2	Сорр	er Crimp	LC -			4 or 2	Copper Crimp
	4 or 2	Alum	inum Crimp	LA –			4 or 2	Aluminum Crimp
							side ordering code if i J is ordered as a 65U.	t is the same
nsulation	Ordering	Stranded*		Ordering	Insulation	Facilitates	Stranded*	
	Code (CHOOSE 1)	Conductor Size (AWG)	Туре	Code (CHOOSE 1)	Diameter Range	Equivalent Conductor (See Table)	Conductor	Туре
nches)	(CHOOSE 1)	Conductor Size (AWG)	Copper Crimp	Code				Type Copper Crimp
Inches)		Conductor Size (AWG) 10 8 6	Copper Crimp Copper Crimp Copper Crimp	Code (CH00SE 1) 6 - 4 - 3 -	Diameter Range	Conductor	Conductor Size (AWG)	
Diameter Range Inches) 155430 420785	(CHOOSE 1)	Conductor Size (AWG) 10 8	Copper Crimp Copper Crimp	Code (CH00SE 1) 6 - 4 -	Diameter Range (Inches)	Conductor (See Table)	Conductor Size (AWG) 12-6	Copper Crimp
nches) 55430 20785	(CHOOSE 1) ADB	Conductor Size (AWG) 10 8 6 4 2	Copper Crimp Copper Crimp Copper Crimp Copper Crimp Copper Crimp Copper Crimp	Code (CH00SE 1) 6 - 4 - 3 - 2 - 1 - 0 - 10 - 1 - 1 -	Diameter Range (Inches)	Conductor (See Table)	Conductor Size (AWG) 12-6	Copper Crimp Aluminum Crimp
nches) 55430 120785	(CHOOSE 1) ADB EAFB	Conductor Size (AWG) 10 8 6 4 2 1 1/0	Copper Crimp Terminal Block	Code (CH00SE 1) 6 - 4 - 3 - 2 - 1 - 0 - 10 -	Diameter Range (Inches) .120 -430	Conductor (See Table)	Conductor Size (AWG) 12-6 12-6 4 or 2	Copper Crimp Aluminum Crimp Copper Crimp
Inches) 155430	(CHOOSE 1) ADB EAFB	Conductor Size (AWG) 10 8 6 4 2 1 1/0	Copper Crimp	Code (CH00SE 1) 6 - 4 - 3 - 2 - 1 - 0 - 10 -	Diameter Range (Inches)	Conductor (See Table)	Conductor Size (AWG) 12-6 12-6 4 or 2	Copper Crimp Aluminum Crimp Copper Crimp Copper Crimp

Insulation Diameter Range (Inches) .155430 .420785	Ordering Code (CHOOSE 1) ADB EAFB	Stranded* Conductor Size (AWG) 10 8 6 4 2 1 1/0	Type Copper Crimp	Ordering Code (CH00SE 1) 6 - 4 - 3 - 2 - 1 - 0 - 10 -	Insulation Diameter Range (Inches) .120430	Equivalent Conductor (See Table)	Conductor Size Size (AWG) 10 8 6 4 2 1	Type Copper Crimp Copper Crimp Copper Crimp Copper Crimp Copper Crimp Copper Crimp	Ordering Code (CHOOSE 1) 6 4 3 2 1 0
.155430	ADB EAFB	10 8 6 4 2 1 1/0	Terminal Block with Set Screws Copper or Alum. Conductors	1 - 1 - 1 - 1 - 1 - 10 - 10 -	.120430	1	10-2	Terminal Block Copper or Aluminum Conductors	N/A

75°C / 600 Volts Max.



LR32565

NOTE: Fused kits require a 13/32" x 1 1/2" fuse. DO NOT USE GLASS OR INDICATING TYPES. Waterproof or direct burial wire is recommended. THHN is NOT recommended.

Example:

A Y-Tap Kit with set screws for a 2 AWG phase line side conductor with a diameter of .472" and a 10 AWG copper load side conductor is ordered as an 82S-EAFB1-C.

^{*} For solid wire: 14-4 AWG, use codes U, UA, C, or A. 2 AWG, use codes LC or LA.

Terminal Blocks

BUCHANAN CONSTRUCTION PRODUCTS, INC. offers the industry's most comprehensive and accommodating line of terminal blocks. BUCHANAN terminal blocks make wiring jobs simpler and allow easy ready hook-up of wires from different components or areas throughout a structure.

- Wide range of configurations to solve virtually any wiring need
- Wide wire ranges 30 AWG to 250 KCMIL (MCM)
- Easy installation connect and disconnect quickly making them perfect for maintenance and troubleshooting applications
- Versatile, accommodating sectional design
- Three housing options to meet your specific applications nylon, phenolic and polyester
- Wide selection of contact types
- Full line of accessories for easy customization



100 Series - Miniature (High Density)

These miniature terminal blocks fit on a much smaller channel to save valuable panel space or can be surface mounted directly to the panel. Miniature blocks accept wire as large as 12 AWG.

- No wire crimping required clamp contacts hold wire from 30 AWG to 12 AWG better than crimp-on terminals
- Saves installation time and cost tubular clamp contacts supplied with captive screws backed out
- Nylon housing for rugged applications
- Positive stop prevents wire from being inserted too far and prevents screw from being tightened on insulation; easy access contact provides safe, reliable and cost-effective connection
- Quick installation and change additional sections may be added or removed without removing channel mounting screw
- Matte-finish area for marking directly on block





Catalog Number -			End S	ection
100 Series	125	115	130	120
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)

WIRE RANGE: Solid or Stranded

Tubular Clamp

1 #12 AWG, 1 #14 AWG, 1 to 3 #16 AWG, 1 to 5 #18 AWG, 1 to 6 #20 AWG, 1 to 7 #22 AWG

Terminal Block Specifications

100 Series	125	115		
Housing Material	Ny	Nylon		
Maximum Service Temperature	125°C	(257°F)		
Flammability	ULS	4V2		
Wire Strip Length (in.)	5/	16		
Torque (lbs.)	6	6-9		
UL Rating	28A @	28A @ 300V		
Wire Range (AWG) Solid & Stranded	30-	30-12		
Pitch (in.)	0.	25		
Terminals per foot	4	8		



Miniature - Single Tier HIGH DENSITY

Flat Base

 $C = .29 + (.25 \times N)$

 $L = .51 + (.25 \times N)$

On Miniature #12 Channel:

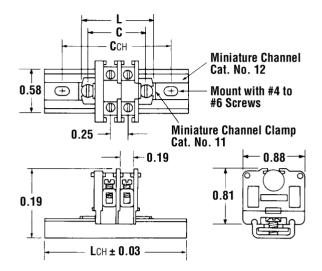
CCH = 1.00 + (.25 XA)

LCH = 1.35 + (.25 X A)

A = N when N is even

A = N + 1 when N is odd

N = Number of Miniature Sections



Dovetail Base

 $C = .35 + (.25 \times N)$

 $L = .50 + (.25 \times N)$

On Standard #60 Channel:

CCH = 2.00 + (.25 XA)

LCH = 2.75 + (.25 X A)

N = Number of Single Tier Sections

On Miniature #12 Channel:

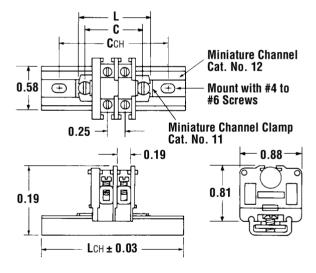
CcH = 1.00 + (.25 XA)

LCH = 1.35 + (.25 X A)

A = N when N is even

A = N + 1 when N is odd

N = Number of Miniature Sections



900 Series Medium Duty

This family of polyester blocks is ideal for high temperature applications. The rugged material withstands temperatures up to 302°F (150°C)

- Three contact styles cover broad wire range accept single wire or combinations from 22 AWG to 8 AWG solid or stranded
- Rated at 15A to 50A per circuit
- Flat base models mount directly to surfaces; dovetail base models mount on stranded channel
- Only one end section needed per block assembly
- Readily identifiable circuits write directly on matte surface of block
- Sections snap-fit with Heavy Duty, Intermediate Heavy Duty and Fuse blocks



Center-to-Center Spacing: .375 in.

Voltage Rating: 600 Volt max., Current: 50 Amp max.

Ampacity: #8 - #22 AWG



Catalog Number	921	0921	924	0924	925	0925	930	0930
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End Section (Direct Mount)	End Section (Channel Mount)
Ampacity	15A		50A		30A		_	_
Contact Type	Strap	Strap Screw		Tubular Screw		Tubular Clamp		_
Screw Type	6-32 Combo Head		10-32 Combo Head			-32 o Head	_	_
Screw Torque	12 in./lbs.		8 in./lbs.		8 in./lbs.		_	_
Wire Range (AWG)	#14 to #22		#8 to #22		#10 to #22		_	_

Housing Material	Polyester (gray)
Contact Material	Copper Alloy, Zinc Plated
Screw Material	Steel, Zinc Plated
Maximum Service Temperature	150°C (302°F)
Flammability	UL94V-0 Rated



LR25557



WIRE RANGE: Solid or Stranded

Strap Screw 1 #22 to 1 #14 AWG

Tubular Screw

1 #8 AWG, 1 #10 AWG, 1 to 3 #12 AWG, 1 to 4 #14 AWG, 1 to 4 #16 AWG,

1 to 5 #18 AWG, 1 to 10 #22 AWG

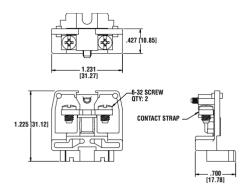
Tubular Clamp

1 #10 AWG, 1 or 2 #12 AWG, 1 to 3 #14 AWG, 1 to 4 #16 AWG, 1 to 5 #18 AWG, 1 to 10 #22 AWG

900 Series

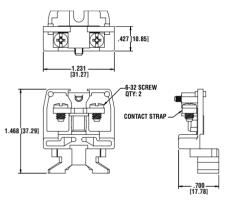
Strap Screw

Direct Mount (Flat Base)



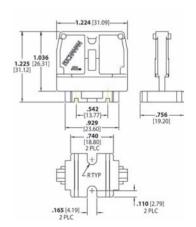
Tubular Screw/Tubular Clamp

Direct Mount (Flat Base)

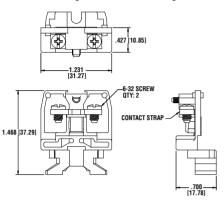


End Section

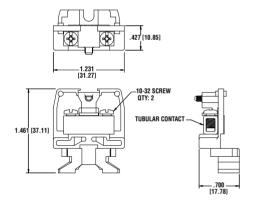
Direct Mount (Flat Base)



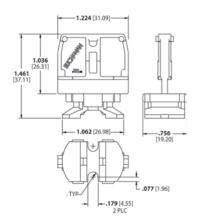
Channel Mount (Dovetail Base)



Channel Mount (Dovetail Base)



Channel Mount (Dovetail Base)





200 Series - Nylon HEAVY DUTY

This compact design, heavy-duty line accepts single wire or combinations up to 4 AWG, solid or stranded,; 600V UL and NEMA rating.

- 138 circuits per 6 foot length
- Three contact styles conservatively rated from 35A to 85A per circuit
- Two-way flat-base models surface mount directly to the panel or snap-on miniature channel; dovetail base models mount on standard channel
- Only one end section needed per block assembly
- Readily identifiable circuits mark directly on painted surface of block sections or use removable marking tape
- Nylon housing for more rugged applications
- Sections snap-fit with Phenolic Heavy Duty, Intermediate Heavy Duty and Fuse blocks



Center-to-Center Spacing: .50 in. CL: 24 circuits per foot.

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: For a single 4 AWG wire, the maximum amperage recommended is 85A.







Catalog Number	241	0241	242	0242	243	0243	250	0250
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End-Section (Direct Mount)	End-Section (Channel Mount)
Ampacity	35A		85A		65A		_	_
Contact Type	Strap	Screw	Tubular Screw		Tubula	r Clamp	_	_
Screw Type	10-32 Slo	tted Binding Head	1/4-28 Slotted Headless		1/4-28 Slotted Headless		_	_
Wire Range (AWG)	#22 to #10		#18 to #4		#18 to #6		_	_
Wire Strip Length	_		1/2 in.		1/2	2 in.	_	_

Housing Material	Nylon, Type 6/6 unfilled
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	125°C (257°F)
Breakdown Voltage AC, 60Hz	7000V
Dielectric Strength (RH40% at sea level)	470-385 V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	0.135
Water Absorption (24 hrs. % weight gain)	1.5%
Flammability	94V-2 (per UL94)
Chemical Resistance	Resistant to aromatic hydrocarbons, strong alkalies
Radiation Resistance (ergs g ⁻¹ C)	8 x 10 ⁷

WIRE RANGE: Solid or Stranded

Strap Screw

1 #22 to 1 #10 AWG

Tubular Screw

1 #4 AWG, 1 #6 AWG, 1 or 2 #8 AWG, 1 to 4 #10 AWG, 1 to 5 #12 AWG, 1 to 6 #14 AWG, 1 to 6 #16 AWG, 1 to 8 #18 AWG

Tubular Clamp

1 #6 AWG, 1 or 2 #8 AWG, 1 to 3 #10 AWG, 1 to 4 #12 AWG, 1 to 4 #14 AWG, 1 to 6 #16 AWG, 1 to 8 #18 AWG





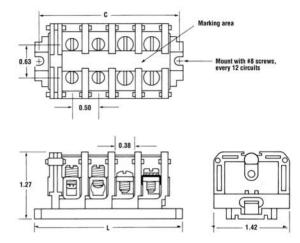
200 Series - Nylon HEAVY DUTY

Flat Base (Direct Mount)

 $C = .56 + (.50 \times N)$

 $L = .78 + (.50 \times N)$

N = Number of circuits

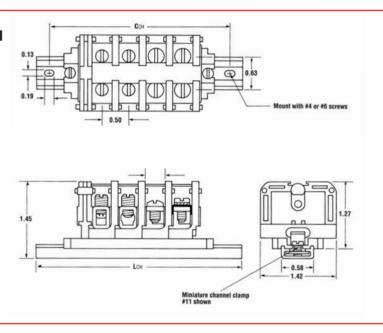


Flat Base Mounted on #12 Miniature Channel

LCH = 1.85 + (.50 X N)

CCH = 1.50 + (.50 X N)

N = Number of Circuits

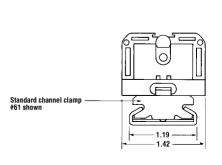


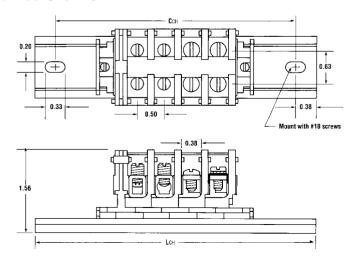
Dovetail Base Mounted on Standard #60 Channel

LCH = .3.03 + (.50 X N)

CCH = 2.28 + (.50 X N)

N = Number of circuits





200 Series - Phenolic HEAVY DUTY

The family of phenolic heavy duty blocks is ideal for high temperature, high current applications. The rugged material withstands temperatures up to 302°F (150°C).

- Sturdy block accepts single wire or combinations up to 4 AWG solid or stranded
- 122 circuits per 6 foot length
- Three contact styles conservatively rated to 35A to 85A
- Only one end section needed per block assembly
- Readily identifiable circuits mark directly on painted marking surface or use removable marking strip
- Sections snap-fit with Nylon Heavy Duty, Intermediate Heavy Duty and Fuse Blocks



Specifications

Center-to-Center Spacing: .56 in. CL: 20 circuits per foot.

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: For a single 4 AWG wire, the maximum amperage recommended is 85A.







Catalog Number	221	0221	222	0222	223	0223	230	0230
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End-Section (Direct Mount)	End-Section (Channel Mount)
Ampacity	3	5A	8	5A	6	5A	_	—
Contact Type	Strap	Screw	Tubula	r Screw	Tubula	ır Clamp	_	_
Screw Type	10-32 Slot	10-32 Slotted Binding Head		1/4-28 Slotted Headless		1/4-28 Slotted Headless		_
Wire Range (AWG)	#22 t	o #10	#18	to #4	#18	to #6	_	_
Wire Strip Length	-	_	1/2	? in.	1/2	2 in.	_	_

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	7000V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.4959
Water Absorption (24 hrs. % weight gain)	45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistant to acids, alkalies, aliphatic hydrocarbons and ketones (per ASTM D5343)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁸ min.

WIRE RANGE: Solid or Stranded

Strap Screw

1 #18 to 1 #8 AWG

Tubular Screw

1 #4 AWG, 1 #6 AWG, 1 or 2 #8 AWG, 1 to 4 #10 AWG, 1 to 5 #12 AWG, 1 to 6 #14 AWG, 1 or 6 #16 AWG, 1 to 8 #18 AWG

Tubular Clamp

1 #6 AWG. 1 or 2 #8 AWG. 1 to 3 #10 AWG. 1 to 4 #12 AWG. 1 to 4 #14 AWG. 1 to 6 #16 AWG, 1 to 8 #18 AWG





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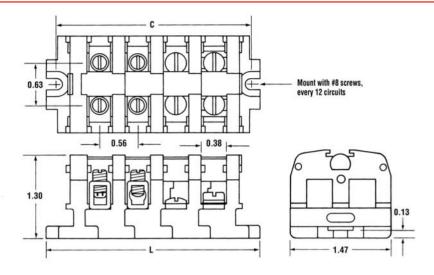
200 Series - Phenolic HEAVY DUTY

Flat Base (Direct Mount)

 $C = .59 + (.57 \times N)$

L = .81 + (.57 X N)

N = Number of circuits

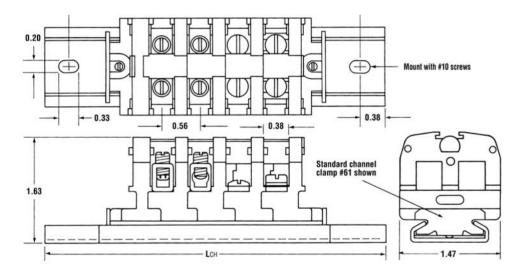


Dovetail Base Mounted on Standard #60 Channel

CCH = 2.31 + (.57 X N)

LCH = 3.06 + (.57 X N)

N = Number of circuits





Nylon INTERMEDIATE HEAVY DUTY

The 800 Series line of 600V blocks is conservatively rated up to 150A for a single 1/0 AWG copper wire.

- Exceptionally compact block accepts single wire or combinations up to 1/0 AWG
- 92 circuits per 6 foot length
- Tubular screw contact style accepts AWG sizes from 12 to 1/0, solid or stranded
- Two-way mounting base fits standard channel or mounts directly to flat surfaces
- Only one end section needed per block assembly
- Readily identifiable circuits write directly on painted marking surface or use removable vinyl marking strip
- Nylon housing for rugged applications, 7/16 -20 slotted headless screws
- Snap-fit with Heavy-Duty Nylon and Phenolic and Fuse Blocks



Center-to-Center Spacing: .75 in. CL: 16 circuits per foot.

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA standards for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: For a single 1/0 AWG copper wire, the maximum amperage recommended is 150A.

Catalog Number	824	830
Mounting Style	Two-Way Mounting Base	End Section
Ampacity	150A	_
Contact Type	Tubular Screw	_
Screw Type	7/16-20 Slotted Headless	_
Wire Range (AWG)	12 to 1/0	_
Wire Strip Length	11/16 in.	_

Housing Material	Nylon, Type 6/6 Unfilled
Contact Material	Copper
Screw Material	Steel, Zinc-Plated
Maximum Service Temperature	125°C (257°F)
Breakdown Voltage AC, 60Hz	8800V
Dielectric Strength (RH40% at sea level)	470-385V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.0135
Water Absorption (24 hrs. % weight gain)	1.5%
Flammability	94V-2
Chemical Resistance	Resistant to aromatic hydrocarbons, strong alkalies
Radiation Resistance (ergs g ⁻¹ C)	8 x 10 ⁷

WIRE RANGE: Solid or Stranded

Tubular Screw

1 #1/0 AWG, 1 #1 AWG, 1 #2 AWG, 1 or 2 #4 AWG, 1 to 3 #6 AWG, , 2, 3 or 5 #8 AWG, 1 to 6 #10 AWG, 1 to 7 #12 AWG





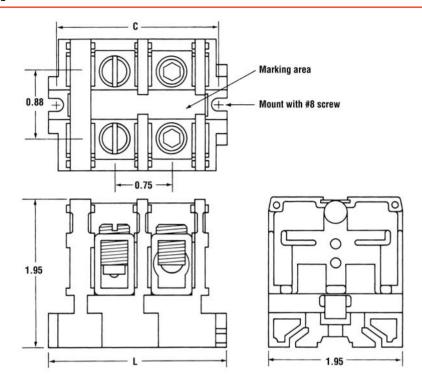
Phenolic HEAVY DUTY

Flat Base (Direct Mount)

C = .59 + (.75 X N)

 $L = .81 + (.75 \times N)$

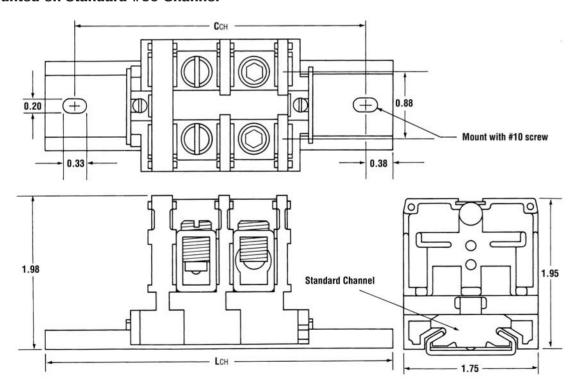
N = Number of circuits



Dovetail Base Mounted on Standard #60 Channel

CCH = 2.31 + (.75 X N)LCH = 3.06 + (.75 X N)

N = Number of circuits









Phenolic ULTRA HEAVY DUTY - 250 KCMIL (MCM)

This Ultra Heavy Duty line is rated up to 255 amps with a single 250 MCM conductor.

- Compact block accepts wire sizes up to 2/0 or 250 KCMIL (MCM)
- 57 circuits per 6 foot length
- Tubular screw contact style for maximum electrical rating
- Block mounts directly on flat surface or standard channel
- Only one end section needed per block assembly
- Readily identifiable circuits write directly on painted marking area or use removable vinyl marking strip
- Hex socket screws allow maximum torque when using large wire sizes
- High current capacity snap-fit sectional blocks do not snap-fit with other block styles



Specifications

Center-to-Center Spacing: 1.19 in. CL: 9 circuits per foot.

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: For a single 250 KCMIL wire, the maximum amperage recommended is 255A.

Catalog Number	426	427	430	
Mounting Style	Two-Way Mounting Base	Two-Way Mounting Base	End-Section	
Ampacity	175A	255A	_	
Contact Type	Tubular Screw	Tubular Screw	_	
Screw Type	1/2-30 Hex Socket	3/4-16 Hex Socket	_	
Wire Range (AWG)	#12-2/0	#6-250 KCMIL/MCM	_	
Wire Strip Length	1 in.	1 in.	_	

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	10000V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.4958
Water Absorption (24 hrs. % weight gain) 0.45% (per ASTM D570)	
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistant to acids, alkalies and aliphatic, hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10° min.

WIRE RANGE: Solid or Stranded

Tubular Screw

1 #2/0 AWG, 1 #1/0 AWG, 1 #1 AWG, 1 or 2 #2 AWG, 1 to 3 #4 AWG, 1 to 3 #6 AWG, 1 to 4 #8 AWG, 1 to 6 #10 AWG, 2 to 8 #12 AWG

Tubular Screw

1 #250 KCMIL, 1 \$4/0 AWG, 1 #3/0 AWG, 1 or 2 #2/0 AWG, 1 or 2 #1/0 AWG, 1 or 2 #1 AWG, 1 to 3 #2 AWG, 1 to 4 #4 AWG, 1 to 5 #6 AWG





Phenolic HEAVY DUTY

Flat Base Mounted on Standard #60 Channel

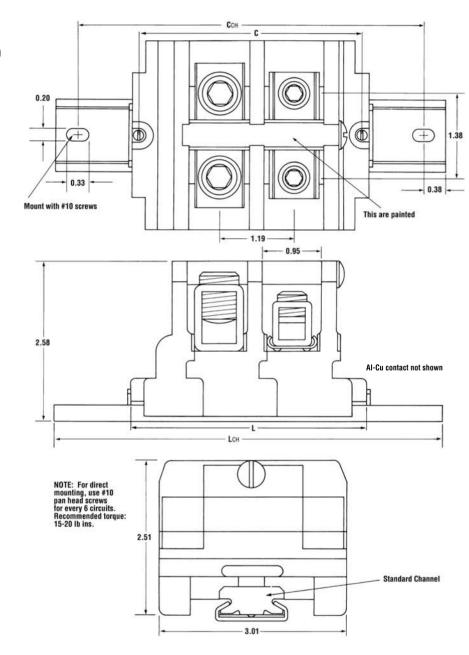
 $C = 1.19 + (1.19 \times N)$

 $L = 1.40 + (1.19 \times N)$

CCH = 2.90 + (2.90 X N)

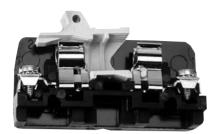
 $LCH = 3.65 + (3.65 \times N)$

N = Number of circuits



Phenolic Fuse Blocks

- Provide in-line circuit protection for any circuit or group of circuits
- Three contact styles for terminated or unterminated wire are conservatively rated to 30A
- Remove, check and replace fuses safely and guickly switch-action fuse blocks open circuits before fuse can be removed or installed
- Good circuit density when mounted adjacently 91 circuits per 6 foot length
- Use in high temperature applications phenolic housing withstands temperatures up to 302°F (150°C)
- Flat base models for surface mounting, dovetail base models for standard channel
- Only one end section needed per block assembly
- Open or close several circuits simultaneously holes in puller handles allow use of nylon "ganging" rods
- Readily identifiable circuits mark directly on white, matte-surface puller assembly, marking tab on block or use removable marking tape
- Sections snap-fit with Heavy Duty and Intermediate Heavy Duty Blocks



Specifications

Center-to-Center Spacing: .75 in. CL: 16 circuits per foot.

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: Fuse blocks, 30A

Fuse Size: Any 13/32 in. x 1-1/2 in. ferrule-type cartridge fuse up to 30A, indicating or non-indicating, which meets MIL. Spec. F-15160 is recommended.







Catalog Number	351	0351	358	0358	352	0352	330	0330
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End-Section (Direct Mount)	End-Section (ChannelMount)
Ampacity	30)A	30)A	3(DA .	_	_
Contact Type	Strap	Screw	Strap	Clamp	Tubula	r Screw	_	_
Screw Type		-32 g Head		Pan /Clamp		-28 Screw	_	_
Wire Range (AWG)	#22 to #8 #18 to #8 #18 - #8		#18 to #8		- #8	_	_	
Wire Strip Length	-	_		1/2 in.		! in.	_	_

Housing Material	Phenolic, Filled, Flame retardant	
Contact Material	Copper alloy	
Screw Material	Steel Plated	
Maximum Service Temperature	150°C (302°F)	
Breakdown Voltage AC, 60Hz	8400V	
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)	
UL High Voltage Arc Testing (in./min.)	.4958	
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)	
Flammability	94V-1 (per UL94)	
Chemical Resistance	Resistance to acids, alkalies and aliphatic hydrocarbons and ketones (per ASTM D543)	
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁷ min.	

WIRE RANGE: Solid or Stranded

Tubular Screw, Cat. No. 362 and 0362

1 #4 AWG, 1 #6 AWG, 1 or 2 #8 AWG, 1 to 4 #10 AWG, 1 to 5 #12 AWG, 1 to 6 #14 AWG, 1 to 6 #16 AWG, 1 to 8 #18 AWG





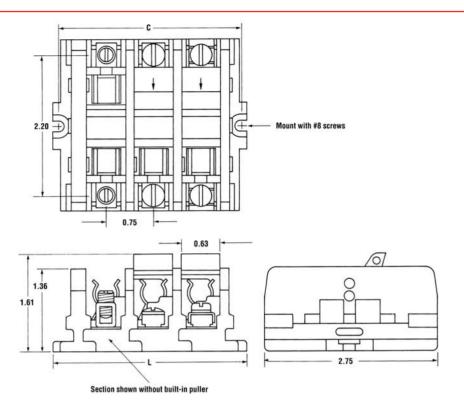
Phenolic Fuse Blocks

Flat Base (Direct Mount)

 $C = .59 + (.75 \times N)$

 $L = .81 + (.75 \times N)$

N = Number of circuits

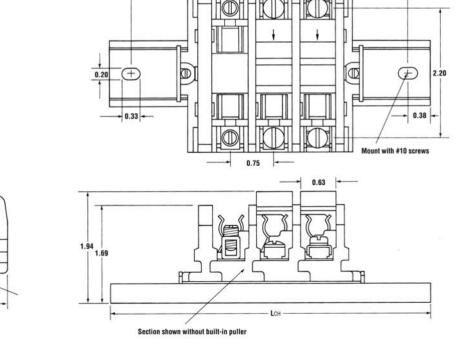


Dovetail Base Mounted on Standard #60 Channel

 $CCH = 2.31 + (.76 \times N)$

 $LCH = 3.06 + (.76 \times N)$

N = Number of circuits









Phenolic One Piece

Traditional standard in the heavy industrial, rail transport, utility and traffic control industries. The rugged, one-piece construction finds wide application in dirty and fibration-prone environments.

- Two, four, six, eight and twelve circuit models
- Strap screw contacts accept wire 8 AWG and smaller and are rated to 50 Amps
- Dovetail base mounts on standard size channel
- Pilot point screws with strap screw contacts speed installation time
- Easily identifiable circuits with use of plain white marking strip
- No assembly required each block is a single, easily installed unit



Specifications

Center-to-Center Spacing: .63 in. CL

Voltage Rating: Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750V.

Ampacity: For a single 8 AWG wire, the maximum amperage recommended is 50A.

Catalog Number	B102	B104	B106	B108	B112
Mounting Style	Two-Way Mounting Base	Two-Way Mounting Base	Two-Way Mounting Base	Two-Way Mounting Base	Two-Way Mount Mounting Base
Number of Circuits	2	4	6	8	12
Ampacity	50A	50A	50A	50A	50A
Contact Type	Strap Screw (Steel)				
Screw Type	10-32 Binding Head				
Wire Range (AWG)	#18 to #8				

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.4958
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistance to acids, alkalies and aliphatic hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁷ min.

WIRE RANGE: Solid or Stranded **Strap Screw** 1 #18 AWG through 1 #8 AWG



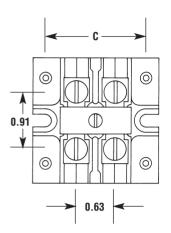


Dimensions

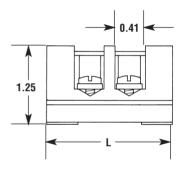
No. of Circuits	С	L
2	1.63	2.0
4	2.88	3.25
6	4.13	4.50
8	5.38	5.75
12	7.88	8.25

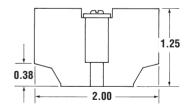
Phenolic One Piece

Dovetail Base Mounted on Standard #60 Channel Strap Screw (Steel)



No. of Circuits	С	L
2	1.63	2.0
4	2.88	3.25
6	4.13	4.50
8	5.38	5.75
12	7.88	8.25





Mounting Channels



Miniature Channel

Steel Channel

Aluminum Channel (Pre-punched)

Mounting Channels	Length	Cat. No.	For use with:
Miniature Channel	3 ft.	12	Heavy Duty (200 Series)
Steel Channel	6 ft. 3 ft.	60 63	Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Aluminum Channel (Pre-punched)	6 ft. 3 ft.	64 67	Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)

Channel Clamps







Miniature Clamp

Universal Clamp

Screw Clamp

Mounting Channels	Cat. No.	For use with:
Miniature Clamp	11	High Density Miniature (100 Series) Heavy Duty (200 Series)
Universal Clamp	68	High Density Miniature (100 Series) Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Screw Clamp	61	High Density Miniature (100 Series) Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)

Covers





Description	Cat. No.	Available for:
Terminal Block	23	Heavy Duty (200 Series) Heavy Duty-Phenolic (200 Series)
	71	Medium Duty (900 Series)

Jumpers

Jumper for Tubular Contacts



#41, 42, 70

Jumper	tor	Strap	Screw
--------	-----	-------	-------



Description	Cat. No.	Available for:	
Jumpers for	41	Heavy Duty-Phenolic (200 Series)	
Tubular Contacts	42 43	Heavy Duty (200 Series)	
		Heavy Duty-Phenolic (200 Series)	
	70	Medium Duty (900 Series)	

Wire Marker Booklets

- Self-sticking on wire and cable
- Perforated 1/4" x 1-1/2" markers
- For applications above or below ground
- Resists abrasion, moisture, dirt and oil
- Non-smear black legend ensures high visibility

Legend	Quantity	Cat. No.
0-9	45 each	775101
A-Z, 0-15, +, -, /	10 each	775102
1-45	10 each	775103
46-90	10 each	775104

*Ten pages per booklet with each page bearing the legend assortment indicated. All booklets contain 450 wire and terminal markers.

BUCHANAN Thin-Wall Heat Shrink Tubing

- Electrically insulates and protects in-line components, terminals and splices
- Flame-retardant and flexible
- Resistant to common fluids and solvents
- Meets UL 224 125°C VW-1 600V
- RoHS compliant
- 2:1 shrink ratio
- Minimum shrink temperature:
- Operating temperature: -55°C to +125°C

Description	Nominal Size (in.)	Color	Length (ft.)	Cat. No.
Thin Wall Heat Shrink	1/16	Black	4	772-1/16-BL
Thin Wall Heat Shrink	3/32	Black	4	772-3/32-BL
Thin Wall Heat Shrink	1/8	Black	4	772-1/8-BL
Thin Wall Heat Shrink	3/16	Black	4	772-3/16-BL
Thin Wall Heat Shrink	1/4	Black	4	772-1/4-BL
Thin Wall Heat Shrink	3/8	Black	4	772-3/8-BL
Thin Wall Heat Shrink	1/2	Black	4	772-1/2-BL
Thin Wall Heat Shrink	3/4	Black	4	772-3/4-BL
Thin Wall Heat Shrink	1	Black	4	772-1-BL



Multi-Purpose Cable Ties

- General purpose cable tie for every day bundling and cable management
- UL recognized

Size	Thickness x Width	Color	Tensile Strength (lbs.)	Pkg. Qty.	Cat. No.				
Miniat	Miniature Ties								
4"	.039 x .095	Natural	18	100	B-4-18-9-C				
4"	.039 x .095	Natural	18	1000	B-4-18-9-M				
4"	.039 x .095	UV Black	18	100	B-4-18-0-C				
Interm	ediate Ties								
6"	.047 x .142	Natural	40	100	B-6-40-9-C				
6"	.047 x .142	Natural	40	1000	B-6-40-9-M				
6"	.047 x .142	UV Black	40	100	B-6-40-0-C				
Standa	ard Air Handling Ties								
8"	.053 x .178	Burgandy	50	100	B-8-50-35-C				
11"	.053 x .178	Burgandy	50	100	B-11-50-35-C				
Standa	ard Ties								
8"	.057 x .181	Natural	50	100	B-8-50-9-C				
8"	.057 x .181	Natural	50	500	B-8-50-9-D				
8"	.057 x .181	Natural	50	1000	B-8-50-9-M				
8"	.057 x .181	UV Black	50	100	B-8-50-0-C				
8"	.057 x .181	UV Black	50	1000	B-8-50-0-M				
11"	.057 x .181	Natural	50	100	B-11-50-9-C				
11"	.057 x .181	Natural	50	500	B-11-50-9-D				
11"	.057 x .181	UV Black	50	100	B-11-50-0-C				
11"	.057 x .181	UV Black	50	500	B-11-50-0-D				
14"	.057 x .181	Natural	50	100	B-14-50-9-C				
14"	.057 x .181	Natural	50	500	B-14-50-9-D				
14"	.057 x .181	UV Black	50	100	B-14-50-0-C				
14"	.057 x .181	UV Black	50	500	B-14-50-0-D				

Assorted Cable Tie Canisters

■ Perfect general purpose assortment for almost any job



Decription	Cat. No.						
Cable Tie Ass	Cable Tie Assortment Canister						
INCLUDES:							
Size	Size Color Strength Oty.						
4"	Natural	18	200	B-4-18-9-C			
6"	Natural	40	100	B-6-40-9-C			
8"	Natural	50	200	B-8-50-9-C			

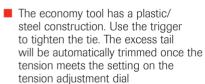
Reference catalog number: Product is packaged in a canister, not individual bags.



Size	Thickness x Width	Color	Tensile Strength (lbs.)	Pkg. Qty.	Cat. No.		
Heavy-Dut							
14"	.066 x .299	Natural	120	50	B-14-120-9-C		
14"	.066 x .299	UV Black	120	50	B-14-120-0-L		
24"	.066 x .299	Natural	175	50	B-24-175-9-L		
24"	.066 x .299	UV Black	175	50	B-24-175-0-L		
36"	.066 x .299	UV Black	175	50	B-36-175-0-L		
36"	.066 x .299	Natural	175	50	B-36-175-9-L		
48"	.066 x .299	Natural	175	50	B-48-175-9-L		
48"	.066 x .299	UV Black	175	50	B-48-175-0-L		
Mounting	Ties						
8"	.057 x .189	Natural	50	100	B-8-50MT-9-C		
8"	.057 x .189	UV Black	50	100	B-8-50MT-0-C		
14"	.053 x .178	Natural	50	100	B-14-50MT-9-C		
14"	.053 x .178	UV Black	50	100	B-14-50MT-0-C		
Mounting Pads							
3/4" x 3/4"	.142 Max. Tie Width	Natural	N/A	100	BMP-750-9-C		
1" x 1"	.189 Max. Tie Width	Natural	N/A	100	BMP-1000-9-C		

Cable Tie Installation Tool

■ Tighten-n-Trim Tool has a plastic construction, pull the trigger to tighten the tie and then twist the tool to remove the excess tail





Description	Cat. No.
Tighten-n-Trip Tool (not shown)	BCTT-200
Economy Cable Tie Tool (shown)	BCTT-100





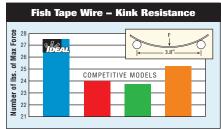




Visit www.idealindustries.com, click the Fish Tape link and watch our Drop Test video today!

Fish tape samples were subjected to a 25 ft. drop onto concrete. All samples were new and dropped side by side, under the same conditions. and at the same time. After each drop the samples were examined for structural damage.

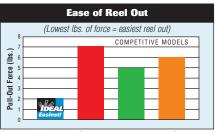
Importance: Strong, durable, long lasting



Kink Resistance Test (Blued Steel)

The test was performed by supporting the sample at two points (3.8 in. apart) and then exerting a force centrally between the two points. The maximum force that the wire would exert upon 1 in. of deflection was recorded.

Importance: The better a tape resists kinking the longer it will serve you. Kinked tape is almost impossible to push through conduit. Kink resistance tape makes your job easier.



Ease of Real-Out Test (Blued Steel)

This test was performed by connecting a force gage to the hook of the wire and then pulling out the wire at a slow pace for about 10 ft. The fish tape case was held by a person. Three measurements were taken and the average

Importance: An easy reel out allows you to finish the job faster without straining your body.



Wire Straightness Test (Blued Steel)

This test was performed by placing each sample of wire on a table such that it was touching two pins that were 3 ft. apart. (A straight edge connected the two pins.) Each sample was pressed toward the straight edged and then slowly released until the wire came to rest at an equilibrium state. The maximum distance from the wire to the straight edge was recorded.

Importance: The straighter the steel as it pays out of the fish tape case the further and easier it will push down conduits.

Fish Tape Cases

Tuff-Grip™ Pro

- Tuff-Cuff[™] tape retaining feature keeps tape properly positioned in the opening
- Full-perimeter handle band helps keep dirt and moisture out.
- Superior pull-out and rewind characteristics
- Exceptionally durable case and handle



Rapid-Pak®

- Inner rotating reel with winding knob retrieves tape faster than traditional fish tapes for increased labor
- Funneled tape opening reduces kinking and tape
- Reversible, hinged knob for right or left handed rewinds
- Stationary handle for extra durability
- Impact-resistant plastic case



Speed-Grip™ Pro Handle

- New vertical grip allows for faster payout and rewind
- Ergonomically designed handle puts less strain on your wrist
- Large hand opening allows for use with gloves
- Attached to the exceptionally durable Tuff-Grip[™] Pro

*On select S-Class® and Zoom™ Fish Tape Models.



Thumb Winder™

- Convenient 7 in. size can be stored in tool bag
- Durable, impact resistant ABS case
- Easy-to-use thumb-operated rewind
- Great for datacomm and small-sized conduit applications

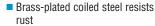


Fish Tape Materials

Blued Steel

- Unique finish is non-oily and resists rust
- Multiple options in width, length and eyelet for ease of use
- Industry's straightest wire
- Stiffer for long runs
- Highest grade carbon steel
- Tensile strength 1,600 lbs.

Gold-Fish®



■ No "memory" – hangs straight after being coiled for long periods

- Kink proof
- Excellent for multiple bends

Stainless Steel

- Won't rust or corrode in damp locations or humid environments
- Super clean finish prevents marks on walls or carpets
- Great for wet or corrosive work environment
- Smoother pay-out
- Tensile strength 1.600 lbs.

S-Class[™]

- Non-conductive tape designed for use around live circuits
- Strong S-Class® core for longer life and greater pushing power
- Smooth nylon jacket provides great handling around bends
- Omni-directional pushing

Zoom™

- 19 strands of stainless steel
- Ultrahard nylon jacket adds slipperiness, protects cables and the user's hands
- Excellent for corrogated plastic conduit
- Excellent for multiple bends or wet/corrosive work environment



19 strand twisted radial steel core encased in high molecular density outer jacket.

The only one in the industry

Volt-Guard™

- Non-conductive to 1000V
- Rectilinear profile for superior pushing power





circuits



Blued-Steel™ Fish Tapes

- High column strength for longer runs
- Non-oily finish resists rust



Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Rapid-Pak®	Thumb- Winder™	Replacement Tapes
Blued Stee	el™						
25	1/8 in. x .045 in.	7 in.	Formed hook	-	-	31-012	-
50	1/8 in. x .045 in.	7 in.	Formed hook	-	-	31-010	-
50	1/8 in. x .060 in.	9 in.	Formed hook	31-033**	-	-	_
60	1/8 in. x .060 in.	12 in.	Formed hook	31-055	-	-	31-035
100	1/8 in. x .060 in.	12 in.	Formed hook	_	31-081 [†]	-	31-036
120	1/8 in. x .060 in.	12 in.	Formed hook	31-056	-	-	31-036
200	1/8 in. x .060 in.	12 in.	Formed hook	-	31-098 [†]	-	31-038
240	1/8 in. x .060 in.	12 in.	Formed hook	31-057	-	-	31-038
500	1/8 in. x .060 in.	None	Formed hook	_	-	-	31-3380
700	1/8 in. x .060 in.	None	Formed hook	_	-	-	31-3379
50	1/4 in. x .060 in.	12 in.	Formed hook	31-059			31-051
100	1/4 in. x .060 in.	12 in.	Formed hook	31-058			31-050
200	1/4 in. x .060 in.	12 in.	Formed hook	_			31-052
400	1/4 in. x .060 in.	None	Formed hook	_	-	_	31-2128
15,000	1/4 in. x .060 in.	None	Formed hook	-	_	_	31-2982

Stainless Steel Fish Tapes

- Won't rust or corrode in humid environments
- Stainless steel design provides a smooth pay-out





Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Stainless	Steel				
120	1/8 in. x .060 in.	12 in.	Formed hook	31-066	31-073
240	1/8 in. x .060 in.	12 in.	Formed hook	31-067	31-074

^{†16} in. diameter Rapid-Pak® Case **9 in. diameter Tuff-Grip™ Pro Case

Wire Installation

S-Class® Fish Tape

- Non-conductive tape for use around live circuits
- Structural glass core gives you a more durable fiberglass tape







Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Rapid-Pak®	Replacement Tapes
S-Class® N	lylon Jacketed Fibergla	ss				
50	3/16 in. diameter	12 in.	Leader	31-060	31-187 [†]	31-150
50	3/16 in. diameter	12 in.	Eyelet	31-062	31-190 [†]	31-160
100	3/16 in. diameter	12 in.	Leader	31-061	31-186 [†]	31-152
100	3/16 in. diameter	12 in.	Eyelet	31-063	31-189 [†]	31-162
200	3/16 in. diameter	16 in.	Leader	31-064*	31-207 [†]	31-155
200	3/16 in. diameter	16 in.	Eyelet	31-065*	31-208 [†]	31-165
300	3/16 in. diameter	None	Eyelet	-	_	31-2138

^{*16} in. diameter Tuff-Grip™ Case †16 in. diameter Rapid-Pak® Case

Zoom™ Fish Tapes

- Great for hard to navigate piping with multiple bends
- Nylon jacket protects the steel core while adding to the slipperiness of Zoom™





Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Zoom™ N	ylon Jacketed Stainless Steel				
50	3/16 in. diameter	12 in.	Eyelet	31-090	31-091
100	3/16 in. diameter	12 in.	Eyelet	31-092	31-093
200	3/16 in. diameter	16 in.	Eyelet	31-096*	31-097

^{*16} in. diameter Tuff-Grip™ Case

Volt-Guard™ Fish Tapes

- Non-conductive up to 1000V
- Elliptical design gives the Volt-Guard™ greater pushing power







Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Fiberglass					
60	.1875 in. x .094 in.	12 in.	Eyelet	31-542	31-552
120	.1875 in. x .094 in.	12 in.	Eyelet	31-544	31-554

Gold-Fish® Fish Tape

- Ultra-flexible tape for hard-to-navigate
- Brass-plated coils resist rust





Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes
Gold-Fish®	Brass Plated Steel Coil				
25	3/16 in. diameter	None	Eyelet	-	31-140
50	3/16 in. diameter	12 in.	Eyelet	31-144	31-141
100	3/16 in. diameter	None	Eyelet	-	31-142



S-Class® Fiberglass and Zoom™ Fish Tape Field Application Kits

- Crimps on new eyelet or leader in minutes
- Dies can be used with Crimpmaster™ Crimp Tool
- Connection guaranteed to withstand 500 lbs.

Description	Cat. No.
Field Application Kit includes: Crimpmaster™ Crimp Tool frame, die set, S-Class® eyelets (2), S-Class® leaders (2), Zoom™ eyelets (2) & instant adhesive	31-156
Die Set Kit* includes: eyelets (2), leaders (2) & instant adhesive	31-164
Replacement eyelets (4) for S-Class® Fish Tape	31-158
Replacement eyelets (2) for Zoom™ Fish Tape	31-094
Replacement leaders (4) for S-Class® Fish Tape	31-159
Die Set Only	31-166

^{*}For those who already have a Crimpmaster™ Crimp Tool.

Fish Tape Replacement Cases

- Durable impactresistant case
- Easy-to-install replacement tapes
- Full-perimeter handle band helps prolong life by keeping more dirt and moisture out
- Large, ergonomically designed handle allows for a comfortable grasp from the top or side, and for use with gloves



Screws sold separately, case requires four LA-4218.

Description	Cat. No.
12 in. Tuff-Grip™ Pro Replacement Case	K-8985
Replacement Screws	LA-4218

/!\ WARNING

Always use approved safety glasses when using this product.

Do not use near energized equipment. Electrical shock may occur. Make sure all power is off. Do not use pliers or other tools that may kink, damage, or weaken any round fish tapes such as S-Class®, Nylon or Zoom™. Use only a fish tape puller designed for this purpose.

While fish tapes made of fiberglass, nylon or other composite materials are non-conductive, they may have a metal eyelet that is conductive and could be grounded against conduit. Do not use on live electrical circuits.

Do not attempt to use fish tape that is fractured or has multiple ends. Keep the fish tape wound in the reel to prevent damage to the tape.

Use this product in a safe work position to prevent loss of balance.

Never remove the screws from case while fish tape is coiled inside the reel.

Failure to follow instructions may result in severe bodily harm or damage to property.

Fish Tape Leaders



- Guides fish tape around bends in conduit
- Handles up to six 10 AWG bare wires
- Pulls up to 500 lbs.

Description	Cat. No.
Fish Tape Leader for steel or stainless steel tapes	31-148
Fish Tape Leader for S-Class® Fiberglass Fish Tape	31-159

Fish Tape Swivel Ball

- Swivels to prevent wires from twisting during pull
- Designed for use on 1/8 in. steel or stainless steel tape
- Eyelet holds up to four 10 AWG bare wires

Description	Cat. No.
Fish Tape Swivel Ball	31-085

Multi-Wire Pulling Leaders

- Pulls multiple wires at one time
- Staggered connection points prevent bunching or hang-ups in tight bends
- 500 lb. working strength at main evelet and up to 150 lbs. with each individual eyelet



Description	Cat. No.
Multi-Wire Pulling Leader – 6-loop	31-146
Multi-Wire Pulling Leader – 4-loop	31-147

Wire Installation

Tuff-Rod™ Fishing Poles

- Strong, lightweight, flexible extendable fiberglass rod kits
- Use to reach and pull wires over suspended ceilings, in cable trays or through interior walls
- Packaged in clear tubes for protection and long-term storage





Tuff-Rod™ Regular Flex

- 1/4 in. white fiberglass
- Extra stiffness for added control when maneuvering wires

Description	Cat. No.
12 ft. kit with fixed bullet nose and threaded J hook (3 ea. 4 ft. sections)	31-611
24 ft. kit with fixed bullet nose and threaded bullet nose (4 ea. 6 ft. sections)	31-612
12 pack of 1/4 in. x 4 ft. Regular Flex Replacement Rods	31-643
12 pack of 1/4 in. x 6 ft. Regular Flex Replacement Rods	31-644

Accessory Kits

Includes replacement heads, one threaded bullet nose, one threaded J hook and one threaded wisk



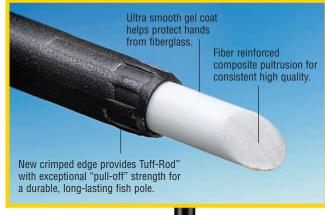
Description	Cat. No.
3/16 in. Accessory kit	31-651
1/4 in. Accessory kit	31-652



Tuff-Rod™ Extra Flex Glow

- 3/16 in. pale green luminescent fiberglass
- Glow-in-the-dark material for easy use in attics, basements and other dim lit areas

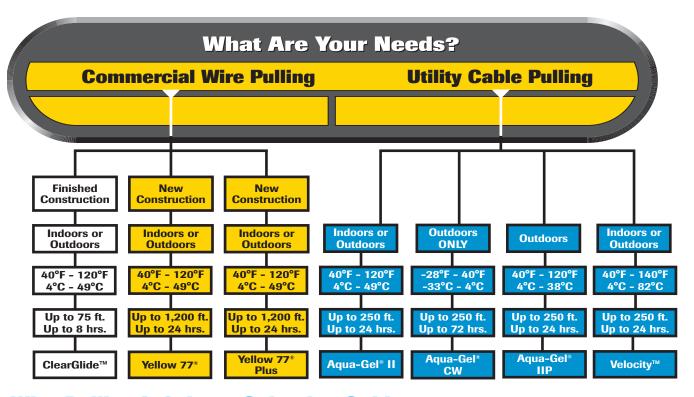
Description	Cat. No.
12 ft. kit with fixed bullet nose and threaded J hook (3 ea. 4 ft. sections)	31-631
30 ft. kit with fixed bullet nose and threaded bullet nose (5 ea. 6 ft. sections)	31-633
12 pack of 3/16 in. x 4 ft. Extra Flex Glow Replacement Rods	31-647
12 pack of 3/16 in. x 6 ft. Extra Flex Glow Replacement Rods	31-648







Select-a-Lubricant



Wire Pulling Lubricant Selection Guide



	ClearGlide™ Wire Pulling Lubricant	Yellow 77 [®] Wire Pulling Lubricant	Yellow 77® Plus Wire Pulling Lubricant	Aqua-Gel [®] II Cable Pulling Lubricant	Aqua-Gel® CW Cable Pulling Lubricant	Aqua-Gel® IIP Cable Pulling Lubricant	Velocity™ Wire Pulling Lubricant
Color	Clear	Yellow	Yellow	Blue	Pink	Blue	Cream
Base	Polymer	Wax	Wax	Polymer	Polymer	Polymer	Polymer
Average Coefficient of Friction*	.17	.08	.16	.11	.07	.11	.14
Safe Storage Temperature Range	32°F – 180°F (0°C – 82°C)	32°F – 130°F (0°C – 54°C)	32°F - 190°F (0°C - 88°C)	32°F – 180°F (0°C – 82°C)	-28°F - 190°F (-33°C - 82°C)	32°F – 180°F (0°C – 82°C)	40°F – 140°F (4°C – 82°C)
Application Temperature Range	40°F – 100°F (4°C – 38°C)	40°F – 100°F (4°C – 38°C)	40°F - 100°F (4°C - 38°C)	40°F – 100°F (4°C – 38°C)	-28°F - 40°F (-33°C - 4°C)	40°F – 100°F (4°C – 38°C)	25°F – 140°F (-3.9°C – 60°C)
COMPATIBILITY (Cable Types):							
Rubber	•	•	•	•	•	•	•
Neoprene	•	•	•	•	•	•	•
Nylon	•	•	•	•	•	•	•
PVC	•	•	•	•	•	•	•
High-density or cross-linked polyethylene	•	•	•	•	•	•	•
Low-density polyethylene	•		•	•	•	•	•
Semiconducting jacket	•		•	•	•	•	•
Hypalon	•	•	•	•	•	•	•

^{*}Results from Falex Corporation, an independent testing agency specializing in tribology tests, using the Falex-ISC On Disk Tribmeter System machine with the ASTM G99 modified method.

Yellow 77® Plus Wire Pulling Lubricant

- Rapid Glide™ polytetrafluoroethylene additive provides greater lubricity than other wax-based lubricants - great for tough pulls
- Safe to use with all cable types
- Clings to cable throughout long runs, even where moisture is
- Remains stable in high temperatures usable from 30°F to 190°F (-1°C to 88°C)
- Dries slowly to a thin, non-conductive film that won't harden in conduit
- Easy to apply by hand or by brush
- Creamy texture applies easily and uniformly
- Homogeneous blend requires no mixing
- Won't dry out surface coat forms to control evaporation
- Environmentally safe non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-398
1-gal. Bucket	31-391
5-gal. Bucket	31-395
5-gal. Bucket – 36 Buckets/Pallet	31-395BP





Yellow 77[®] Wire Pulling Lubricant

- The #1 brand of wire pulling lubricant since 1959 the perfect general purpose lube
- Wax-based formula provides superior lubricity
- Safe to use with most cable types except low-density polyethylene and semi-conducting jackets
- Clings to cable throughout long pulls, even where moisture is present
- Won't break down or separate after repeated exposure to freezing temperatures
- Dries to a thin, non-conductive film
- Easy to apply by hand or by brush
- Creamy texture applies easily and uniformly
- Homogeneous blend requires no mixing
- Won't dry out surface coat forms to control evaporation
- Environmentally safe non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-358
1-gal. Bucket	31-351
5-gal. Bucket	31-355
55-gal. Drum	31-365
5-gal. Bucket – 36 Buckets/Pallet	31-355BP







ClearGlide™ Wire Pulling Lubricant

- Clear and colorless for quick and easy clean-up great for indoor and retrofit pulls
- Exceptional lubricity for super-fast pulls
- Polymer-based formula is perfect for all electrical and datacomm applications
- Safe to use with all cable types
- Controlled evaporation rate is ideal for shorter runs
- Remains stable over wide temperature range usable from 30°F to 180°F (-1°C to 82°C)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-388
1-gal. Bucket	31-381
5-gal. Bucket	31-385
5-gal. Bucket – 36 Buckets/Pallet	31-385BP
55-gal. Drum	31-2143





Velocity™ Wire Pulling Lubricant

- High cling factor
- Maximum friction reduction
- Specification grade
- Compatible with all popular cable types
- Temperature stable
- UL listed
- Non-combustible residue
- Environmentally safe -- non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-276
1-gal. Bucket	31-277
5-gal. Bucket	31-278
5-gal. Bucket – 36 Buckets/pallet	31-278BP
55-gal. Drum	31-279
1-qt. Bag (12 bags/bucket)	31-282
1/2-gal. Bag (6 bags/bucket)	31-283





Recommended Qty. of Lubricant Formula

 $Q = .0015 \times L \times D$

Q = Quantity of recommended lube in gallons

L = Length of pull in feet

D = Nominal ID of conduit in inches

The formula listed above is used as a guideline on estimating the quantity of lube needed for various jobs. Many factors go into a cable pull, however this formula is just based on length of the pull and diameter of the conduit.

Increase quantities for the following troubles:

- Stiff, heavy cable
- Rough, old or dirty conduits
- High percent conduit fill
- Pulls with several bends
- High temperatures

Selection & Application Guides

Description	Cat. No.
Lubricant Selection Slide Rule	P-2710

Web Based Selection & Application Guide: http:ideal.sdafiles.com/#select





Wire Installation

Aqua-Gel® IIP Cable Pulling Lubricant

- Features the same excellent qualities as Agua-Gel® II Cable Pulling Lubricant with a lower viscosity for easy pouring and pumping
- Pourable formula clings to cable eliminates hand application for a cleaner and safer job
- Compatible with all cable types
- Cleans up easily with soap and water
- Environmentally safe non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-gal. Jug	31-421
5-gal. Bucket	31-425
55-gal. Drum	31-435





Aqua-Gel® CW Cable Pulling Lubricant

- Features the same excellent qualities as Aqua-Gel® II Cable Pulling Lubricant with a lower temperature range for use outdoors in cold weather
- Polymer-based, cold-weather formula remains stable in storage from -28°F to 190°F (-33°C to 82°C)
- Formulated for exterior use in cold weather conditions
- Cleans up easily with soap and water
- Clings to cable throughout long pulls
- Well-suited for hand or poured applications
- Environmentally safe non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-298
1-gal. Jug	31-291
5-gal. Bucket	31-295
55-gal. Drum	31-3373



Aqua-Gel® II Cable Pulling Lubricant

- Polymer-based formula provides maximum tension reduction in high-stress electrical and communications cable-pulling operations
- Compatible with all cable types except composite rubber
- Cleans up easily with soap and water
- Clings to cable throughout long pulls
- Remains stable over wide temperature range usable from 28°F to 180°F (-2°C to 88°C)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe non-toxic, non-flammable and non-corrosive
- For outdoor use only

To outdoor doc only	
Description	Cat. No.
1-qt. Squeeze bottle	31-378
1-gal. Bucket	31-371
1-qt. Bag (12 bags per bucket)	31-376
1/2-gal. Bag (6 bags per bucket)	31-377
5-gal. Bucket	31-375
5-gal. Bucket – 36 Buckets/Pallet	31-375BP
55-gal. Drum	31-3855







Duct Seal

- Seals around junction boxes, flashings and service entrances
- Permanently soft, non-toxic compound can be painted immediately after application
- Won't adversely affect other plastic materials or corrode metals



Description	Cat. No.	
1 lb. Block (10/carton)	31-601	
5 lb. Block (10/carton)	31-605	

Bender Putter

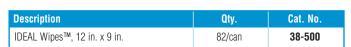
- Steel shaft with rubber grip and conduit bender-shaped head
- Includes velour pouch to protect head



Description	Cat. No.
Bender Putter	74-999

IDEAL Wipes™ The Multi-Purpose Towel

- Pre-moistened wipes require no water
- Cleans dirt, grease, lube and grime
- Durable fabric scrubs without tearing
- Infused with natural hand moisturizers and Vitamin E
- Orange citrus scent



Noalox® Anti-Oxidant

- Anti-oxidant and anti-seizing compound improves efficiency and service life of aluminumto-aluminum and aluminum-to-copper electrical connections
- Suspended zinc particles penetrate and cut aluminum oxide
- Provides additional interstrand and inter-conductor current paths for improved conductivity and cooler connections
- Carrier material excludes air to prevent further oxidation
- For use with all types of pressure-type wire connectors including screw-on, tap, service entrance and split-bolt
- Reduces galling and seizing and promotes good ground continuity on aluminum conduit joints



Description	Cat. No.
1/2-oz. Tube	30-024
4-oz. Squeeze bottle	30-026
8-oz. Squeeze bottle	30-030
8-oz. Brush cap	30-031
1-gal. Bucket	30-032
5-gal. Bucket	30-040



- Deburrs inside and outside edges of 1/2 in., 3/4 in. and 1 in. thin wall conduit
- Hooded tip tightens EMT fitting set screws without slipping
- Square tip "seats" much more quickly on fitting screws than slotted version
- Head removes and is interchangeable with IDEAL 7-in-1 Twist-a-Nut™ Screwdriver shaft (#35-908)
- Head can be used in drill or cordless screwdriver
- Universal Wire-Nut® Wire Connector wrench in handle end eases installation of twist-on connectors
- Lifetime guarantee (excludes blades)



Description	Cat. No.
Conduit Deburring Tool, slotted tip	35-083
Conduit Deburring Tool - head only, slotted tip	35-096
Conduit Deburring Tool, square tip	35-075
Conduit Deburring Tool - head only, #2 square tip	35-098
Replacement Blades (2/pack)	35-097

Wire Installation

Conduit Benders

- Exceptional, durable, materials for extra strength
- Reinforced at stress points for longer life
- Markings are raised and cast into the bender body on both sides for easy visibility
- Deeply serrated step helps prevent slippage when applying force
- Grooved internal hook surface helps prevent conduit from slipping
- Flat hook surface provides stable starting point
- Desirable Benfield bending system

Ductile Iron

- Withstands a lifetime of heavy use
- Ductile iron material is stronger than malleable iron or aluminum



Ductile Iron Head & Handle Complete

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-026
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-027
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-028
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-034

Ductile Iron Head Only

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-001
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-002
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-003
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-006

1/2" EMT 3/4" EMT 1/2" Rigid 1/2" IMC

1" EMT 3/4" Rigid 3/4" IMC

1-1/4" EMT 1" Rigid 1" IMC







Aluminum

- Lightweight aluminum for easy handling
- Strong enough for every day use



Aluminum Head & Handle Complete

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-046
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-047

Aluminum Head Only

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-031
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-032

Handles for Benders

- Rugged, steel construction for long-term durability
- Baked-on blue enamel finish resists corrosion and enhances visibility
- Convenient bending guide for offset bends

Handles for Ductile Iron

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-019
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-019
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-020
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-021

Handles for Aluminum

Conduit Type and Size	Cat. No.
1/2 in. EMT	74-019
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-019
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-020
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-021



Hickeys

- Exceptional, durable, heat treated materials for extra strength
- Reinforced at stress points for longer life
- Grooved internal hook surface helps prevent conduit from slipping

Ductile Iron Hickeys

High-strength ductile iron construction

Lifetime replacement guarantee

3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC

1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC 1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC

Handles for Hickeys

 Rugged, steel construction for long-term durability

Baked-on blue enamel finish resists corrosion and enhances

Convenient bending guide for

3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC

1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC

1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC

Conduit Type and Size

1/2 in. EMT

visibility

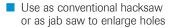
1/2 in. EMT

offset bends

Conduit Type and Size

Grooved internal hook helps prevent conduit from slipping







- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Heavy Duty Hacksaw	35-260



- Blade can easily be adjusted for flush cutting

Description	Cat. No.
Ergonomic Hacksaw	35-261

Pocket Bender Guide

- Convenient pocket-sized reference guide
- Includes simple, concise bending techniques for precision stubs, back-to-back, offset and saddle bends
- Request free booklet #P-100



Hickey Only Cat. No.

74-010

74-011 74-012

74-013

Handle Only

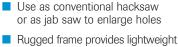
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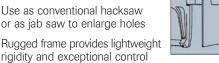
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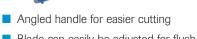






- Stores up to nine extra blades
- Blades can be adjusted to 55° angle for flush cutting and tensioned to 25,000 psi

Description	Cat. No.
Heavy Duty Hacksaw	35-260



- Easy tensioning wing-nut keeps blades tight for straighter cuts
- Cushioned ergonomic grip for performance and comfort
- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Ergonomic Hacksaw	35-261

Hacksaw Blades

Bi-metal blades provide strength, flexibility and longer life

Description

	Qty./Pack	Cat. No.
	10	35-271
	10	35-272
	10	35-273

Wire Installation



Description	Tensile Strength	Cat. No.
Valu-Line™ Pull-Line – 6,500 ft. (bucket)	190 lbs.	31-338

Powr-Fish® Pull-Line ■ White with blue tracer for easy identification Continuous-fiber polyline great for blowing directly into conduit ■ Will not rot or mildew Can be left in conduit for future use

Description	Tensile Strength	Cat. No.
Powr-Fish® Pull-Line — 6,500 ft. (bucket)	210 lbs.	31-340
Powr-Fish® Pull-Line — 6,500 ft. (box)	210 lbs.	31-343
Powr-Fish® Pull-Line — 6,500 ft. (36 bukets/pallet)	210 lbs.	31-340BP



Description	Tensile Strength	Cat. No.
Powr-Fish® Pull-Line — 2,200 ft. (bucket)	500 lbs.	31-344

Conduit Measuring Tape

- Provides quick and accurate measurement of conduit runs
- Easy-to-read markings in sequential one-foot increments
- 160 lb. tensile strength
- Pulls rope through raceways without stretching
- Dispenser features built-in cutter, handle, non-skid base and adjustable reel tension
- Will not rot or mildew

Description	Cat. No.
Conduit Measuring Tape – 3,000 ft.	31-347

Pro-Pull™ Rope

- Low-friction polypropylene rope slides easily through conduit
- Non-sliver surface can be handled without gloves
- Will not rot or mildew
- Rugged, lightweight construction

Rope Size	Tensile Strength	Cat. No.
1/4 in. x 250 ft. Reel	1,125 lbs.	31-839
1/4 in. x 600 ft. Reel	1,125 lbs.	31-840
1/4 in. x 1,000 ft. Reel	1,125 lbs.	31-841
3/8 in. x 250 ft. Reel [†]	2,430 lbs.	31-844
3/8 in. x 600 ft. Reel [†]	2,430 lbs.	31-845
3/8 in. x 1,200 ft. Reel [†]	2,430 lbs.	31-846
1/2 in. x 250 ft. Reel [†]	3,780 lbs.	31-849
1/2 in. x 600 ft. Reel [†]	3,780 lbs.	31-850
1/2 in. x 1,200 ft. Reel [†]	3,780 lbs.	31-851
5/8 in. x 600 ft. Reel [†]	5,580 lbs.	31-853
5/8 in. x 1,200 ft. Reel [†]	5,580 lbs.	31-854
3/4 in. x 300 ft. Reel†	7,650 lbs.	31-855
3/4 in. x 600 ft. Reel†	7,650 lbs.	31-856
3/4 in. x 1,200 ft. Reel†	7,650 lbs.	31-857

† Eye splice on working end.





Foam Carriers



- Attach to a suitable line to serve as a piston clears out water or debris as they travel through conduit
- Durable foam construction for repeated use and long life
- For use with any type of blower or vacuum system

Foam Carriers

Description	Cat. No.
1/2 in. Foam Carrier, 5-pack bag	31-466
3/4 in. Foam Carrier, 5-pack bag	31-467
1 in. Foam Carrier, 5-pack bag	31-468
1-1/4 in. Foam Carrier, 3-pack bag	31-469
1-1/2 in. Foam Carrier, 2-pack bag	31-470
2 in. Foam Carrier, 1-pack bag	31-471
2-1/2 in. Foam Carrier, 1-pack bag	31-322
3 in. Foam Carrier, 1-pack bag	31-323
3-1/2 in. Foam Carrier, 1-pack bag	31-324
4 in. Foam Carrier, 1-pack bag	31-325
5 in. Foam Carrier, 1-pack bag	31-326
6 in. Foam Carrier, 1-pack bag	31-327

Line Packages



- One-piece pull line and foam tip unwind as they move through conduit
- One-piece construction for faster, easier use with no knots or foam carriers to retrieve
- Line tensile strength of 17 lbs.
- For use with any type of blower or vacuum system

Line Packages

Description	Color	Cat. No.
Line Package, 1/2 in. x 75 ft., 10-pack bag	Red	31-472
Line Package, 1/2 in. x 150 ft., 10-pack bag	Red	31-473
Line Package, 3/4 in. x 200 ft., 5-pack bag	Yellow	31-475
Line Package, 3/4 in. x 300 ft., 5-pack bag	Yellow	31-476
Line Package, 3/4 in. x 450 ft., 5-pack bag	Yellow	31-477
Line Package, 1 in. x 200 ft., 5-pack bag	White	31-479
Line Package, 1 in. x 300 ft., 5-pack bag	White	31-480
Line Package, 1 in. x 450 ft., 5-pack bag	White	31-481



Engineered to strip every wire right



Kinetic™ Reflex™ T*-Stripper Wire Stripper

Ergonomic handles with Santoprene™ grip and Thumb Valley™ make this the premier wire stripper in the market.

Kinetic™ Super Wire Stripper

The ergonomic design and patented Santoprene™ grip wicks away perspiration and reduces muscle fatigue. The Thumb Valley™ guide and precision stripping holes promote the highest accuracy in the industry.



Thumb Valley Protection

- Pocket Locket Locking Hasp
- Shear Cut **Bolt Cutters**
- Santoprene[™]
- Ergo Handles



The ergonomic design with curved handles reduces wrist fatigue. Features 6/32 and 8/32 self-chasing, bolt cutting holes and a locking pawl for safe storage.

Reflex™ Premium T®-Stripper Wire Stripper

Designed for total-comfort and wire stripping.

Ergonomic handles fit an electrician's natural

grip and reduces hand fatigue. Textured, slip-

resistant sleeves cushion thumb and fingers.



Extended

Textured

Ergo Handles

· Locking Pawl

- **Bolt Cutting** Extended
- Textured Comfort
- · Ergo Handles

Thumb Valley **Protection**

- Pocket Locket **Locking Hasp** Shear Cut
- **Bolt Cutters** Santoprene™

Curved Handles

Super T*-Stripper Wire Stripper

Traditional T®-Stripper Wire Stripper features with the added convenience of bolt-cutting holes and locking pawl. Curved comfort-grip handles accommodate high-volume wire stripping.



Locking Pawl

- · Bolt Cutting
- Comfort
- Curved Handles

T*-Stripper Wire Stripper
The industry standard for almost 50 years. Compact, lightweight and easy to use. Features precision-ground,
knife-type blades, built-in looping holes, wire cutters

noles, wire cutters and a convenient plier nose. · Straight Handles

Stripper Wire Stripper Selection Guide	

T®-	T [®] -Stripper Wire Stripper Selection Guide							Sel	ect	ion	G	uide							
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		F			F	F	22	24	20	6 2	8 3	SO SOID		45 -125	45-317	45-417	_	_	_
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Static Disp



- Non-slip Santoprene™ textured grips
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more accurate
- "Shear-Cut™" bolt cutters

Description	Solid	Stranded	Cat. No.
Kinetic Super™ Wire Stripper	10-18	12-20	45-715
Kinetic Super™ Wire Stripper	14-24	16-26	45-716
Kinetic Super™ Wire Stripper	6-14	8-16	45-718

Reflex™ Premium T®-Stripper Wire Strippers



- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured, no-slip sleeves provide a sure, easy grip

Description	Solid	Stranded	Cat. No.
Reflex™ Premium T®-Stripper Wire Stripper	10-18	12-20	45-415
Reflex™ Premium T®-Stripper Wire Stripper	14-24	16-26	45-416
Reflex™ Premium T®-Stripper Wire Stripper	22-30	24-32	45-417
Reflex™ Premium T®-Stripper Wire Stripper	6-14	8-16	45-418
Reflex™ Premium T®-Stripper – Metric	0.5mm ² -4.0mm ²		45-425-341
Reflex™ Premium T®-Cutter	Cut	tter	45-423

Kinetic™ Reflex™ T®-Stripper



- Non-slip Santoprene[™] textured grips and thumb rest
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more
- "Shear-Cut™" bolt cutters

Description	Solid	Stranded	Cat. No.
Kinetic™ Reflex™ T®-Stripper Wire Stripper	10-18	12-20	45-915
Kinetic™ Reflex™ T®-Stripper Wire Stripper	6-14	8-16	45-918





- 6/32 and 8/32 self-chasing screw-cutting holes
- Locking pawl for safe storage
- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured sleeves with extra cushioning for added comfort

Description	Solid	Stranded	Cat. No.
Reflex™ Super T®-Stripper Wire Stripper	8-16	10-18	45-615
Reflex™ Super T®-Stripper Wire Stripper w/static dissipative grips	14-24	16-26	45-616
Reflex™ Super T®-Stripper Wire Stripper	8-14	8-16	45-618
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper Wire Stripper	12-2 and 14-2	_	45-621
Reflex™ Super 12/3 & 14/3 NM Cable T®-Stripper Wire Stripper	12-3 and 14-3	_	45-622



T®-Stripper Wire Strippers

- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Built-in wire cutter and looping holes
- Convenient plier nose for extra gripping strength



- Spring-loaded automatic opening
- Corrosion-resistant, black oxide finish
- Tough steel construction

Description	Solid	Stranded	Cat. No.
T®-5 T®-Stripper Wire Stripper	10-18	12-20	45-120
T®-6 T®-Stripper Wire Stripper	14-24	16-26	45-121
T®-7 T®-Stripper Wire Stripper	22-30	24-32	45-125
T®-8 T®-Stripper Wire Stripper	6-14	8-16	45-124
T®-Stripper Wire Stripper – Metric	0.75-6mm ²		45-120-341
T®-Stripper Wire Stripper – Metric	0.5-4mm ²		45-125-341

NM Cable T®-Stripper Wire Strippers

- Easy, one-step stripping of outer jacket of NM cable — no slitting required
- Versatility to strip, cut and loop conductor wires with precision and ease
- Stripping holes for12 or 14 AWG solid wire
- Locking pawl for safe storage

Description	Cat. No.
14/2 NM Cable T®-Stripper Wire Stripper	45-248
12/2 NM Cable T®-Stripper Wire Stripper	45-249
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper Wire Stripper	45-621
Reflex™ Super 12/3 & 14/3 Cable T®-Stripper Wire Stripper	45-622

NM Cable Dual-Hole T®-Stripper Wire Stripper

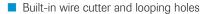
- Stripping holes for stripping two 12 AWG or two 14 AWG wires simultaneously
- Ability to strip both conductor wires of NM cable at one time

Description	Wire Range	Cat. No.
Premium T®-14 T®-Stripper Wire Stripper	12 or 14 AWG solid	45-247

Romex® is a registered trademark of Southwire.

Super T®-Stripper Wire Strippers

- 6-32 and 8-32 self-chasing screwcutting holes (not available on metric stripper)
- Curved, cushion-grip handles for ergonomic comfort
- Locking pawl to keep stripper in closed position



- Convenient plier nose for extra gripping strength
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Tough steel construction, corrosion-resistant, black oxide finish

Description	Solid	Stranded	Cat. No.
Super T®-5 T®-Stripper Wire Stripper	8-16	10-18	45-315
Super T®-8 T®-Stripper Wire Stripper	6-14	8-16	45-318
Super T®-Stripper Wire Stripper – Metric	0.5-4mm ²		45-310-341
Super T®-Stripper Wire Stripper – Metric	0.75-6mm ²		45-315-341
Super T®-Stripper Wire Stripper – Metric	0.5-4mm ²		45-317-341

Lil' Ripper Stripper™

- Rips Romex® outer jacket cleanly and quickly
- Clips outer sheathing to remove excess Romex® jacket
- Strips inner conduit wires
- Looping holes loop wire for screw-on connections
- Twist-Assist™ tightens most popular sizes of winged twist-on connectors
- Injection molded elastomer grip provides a comfortable, slip resistant grip
- Strip length measuring scale allows for quick and easy measurements
- Conveniently fits in your pocket

Description	Cat. No.
Lil' Ripper Stripper™	45-025

Reflex™ Super T®-Stripper Wire Strippers

- 6/32 and 8/32 self-chasing screw-cutting holes
- Locking pawl for safe storage
- Ergonomic design for maximum comfort
- Curved handles reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured sleeves with extra cushioning for added comfort

Description	Solid	Stranded	Cat. No.
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper Wire Stripper	12-2 and 14-2	_	45-621
Reflex™ Super 12/3 & 14/3 NM Cable T®-Stripper Wire Stripper	12-3 and 14-3	_	45-622

Super T®-Stripper Wire Strippers-**Static Dissipative**

- Static dissipative grips for dispersing static charge buildup through the operator to the ground (operator must be grounded via wrist strap or other grounding
- Locking pawl to keep stripper in closed position

Description	Solid	Stranded	Cat. No.
Super T®-6 T®-Stripper Wire Stripper w/static dissipative grips	14-24	16-26	45-316
Super T®-7 T®-Stripper Wire Stripper w/static dissipative grips	22-30	24-32	45-317

V-Notch Stripper

- Cuts copper or aluminum wire, solid or stranded
- Rotating cam wheel adjusts to strip 10-24 AWG wire
- Looping holes for solid wire





- Versatile, seven-function tool features precision-ground stripping blades, cushioned grips and plier nose
- Strips 8 16 AWG solid and 10 18 AWG stranded wire
- Crimps bare and insulated terminals for 10 22 AWG wire, RG-59 coax connectors and 7 to 8mm auto ignition connectors
- Cuts unhardened wire, bolts and screws (4-40, 6-32, 8-32, 10-24 and 10-32) and reforms threads
- Cuts stranded, solid, Romex® and U.F. wire to 8 AWG
- Reams and de-burrs conduit
- Gauges and loops wire

Description	Cat. No.
7-in-1 Stripper	45-777

Romex® is a registered trademark of Southwire.

Ringer™ Shielded Cable Stripper

Precision stripping for most non-round cable, including extruded Teflon®, Kapton®, Tefzel®, Kynar® and hightemperature insulations



- Spring-loaded head provides even tension
- Heat-treated, stainless-steel blades resist wear
- Fixed blades are sized to insulation thickness, for accurate stripping
- V-notch jaw automatically positions and holds cable
- Wire guide roller maintains stripping head alignment, for square, clean cuts

Description	Blade	Color	Cat. No.
Cable Stripper, 5 Mil insulation, includes blade	K-6492	(Orange)	45-401
Cable Stripper, 8-10 Mil insulation, includes blade	K-6493	(Yellow)	45-402
Cable Stripper, Cable diameters up to 0.12 in.	sold separately	(Blue)	45-400
Cable Stripper, Cable diameters from 0.12 in. to 0.22 in.	sold separately	(Red)	45-403
Cable Stripper, w/"deep V" forcable diameters up to 0.30 in.	sold separately	(Green)	45-404

Replacement Blades

Cutting Depth	Cat. No.	Cutting Depth	Cat. No.	Cutting Depth	Cat. No.
.0030 in.	K-6491	.0100 in.	K-6497	.0180 in.	K-6503
.0044 in.	K-6492	.0110 in.	K-6498	.0200 in.	K-6504
.0060 in.	K-6493	.0120 in.	K-6499	.0220 in.	K-6505
.0070 in.	K-6494	.0130 in.	K-6500	.0250 in.	45-2108-1
.0080 in.	K-6495	.0140 in.	K-6501		
.0090 in.	K-6496	.0160 in.	K-6502		

Select blade with cutting depth less than insulation thickness.

Wire Stops

Description	Cat. No.
Up to 2-1/2 in.	LB-825
2-1/2 in. to 5 in.	LB-840



Teflon® and Kapton® are registered trademarks of E.I. duPont de Nemours and Company. Kynar® is a registered trademark of Pennwall.





- Cuts round communication cable and maintains cable geometry for better cable performance
- Cuts multi-pair cable up to .500 in. (12.7mm) and coaxial cable up to RG-9/U
- Suitable for soft cables (not ACSR)
- Steel reinforced center conductors can be trimmed with bolt cutting holes
- Cushioned comfort grip handles
- Locking latch keeps tool closed in pouch
- Data T®-Cutter II designed for RG-58 and RG-6 coaxial cable

Description	Cat. No.
Data T®-Cutter	45-074
Data T®-Cutter II	45-075

Combo Tool

- Convenient, four-function tool features precision-ground stripping holes and knife-to-anvil cutting blades
- Crimps bare and insulated terminals
- Strips 8 20 AWG solid and 10 22 AWG stranded wire
- Cuts unhardened bolts (4-40, 6-32, 8-32, 10-24 and 10-32) and reforms threads

Description	Cat. No.
Combo Tool	30-428

Multi-Crimp Strip Tool

- Cuts wire
- Crimps insulated and non-insulated wires
- Cuts bolts
- Strips 10-22 AWG wire

Description	Cat. No.
Multi-Crimp Strip Tool	45-778

T®-Cutter Wire

Hardened steel, sheer

Spring-loaded automa

- Convenient plier nose for extra gripping strength
- Corrosion-resistant, black oxide finish
- Tough steel construct
- Locking tab keeps sp in place

Cutters	
er-type blades	
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Description	Wire Range	Cat. No.
T®-Cutter Wire Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-123
Reflex™ Premium T®-Cutter Wire Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-423

T®-Cutter Lite Wire Cutter

In today's cutting-edge electronic production and assembly operations, the T®-Cutter Lite is a "must-have." Stranded or solid, copper or aluminum, this wire cutter cuts cleanly and accurately. Compact and lightweight with a cushioned

ESD grip prove comfort and precision go hand-in-hand.

- Knife-type blade provides a shear-type cut
- Lightweight, compact design
- Perfect for copper and aluminum wire
- Cushioned ESD grip

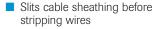
Description	Cat. No.
T®-Cutter Lite Wire Cutter	45-260

Coax Strip and Crimp Tool

- Precision, form-ground stripping holes remove outer jacket and insulation from RG-59 and RG-6 coaxial cable
- Durable blades cut copper-coated steel conductors
- Three crimping nests for crimping F-connectors and ring terminals

Description	Cat. No.
Coax Strip & Crimp Tool	30-433
Coax Strip & Crimp Tool w/F-Connectors	30-433F

Cable Ripper





- Quick, clean and easy end or mid-run removal of jacket
- Convenient built-in wire gauge

Description	Cat. No.
Side Entry Cable Ripper	45-118

Underground Feeder (UF) Cable Stripper

- Self-adjusting stripping blades automatically select proper position
- Strips 12 AWG solid to 14 AWG Underground Feeder (UF) Cable
- Strips Twin and Earth cable
- Open-throat construction allows unlimited strip length
- Neatly removes outer cable sheath and then inner wire sheathing to desired lengths
- Lightweight, ergonomic design reduces user fatigue

Description	Cat. No.
Underground Feeder Cable Stripper	45-235

Grip-N-Strip™ **End Stripper**

- Self-adjusting stripping blades automatically select proper position
- Strips 12 AWG solid to 20 AWG stranded PVC insulated wire
- Dual strip-length gauge marks at 3/16 in. and 5/16 in.
- Cuts up to 12 AWG solid wire
- Lightweight, ergonomic design reduces user fatigue
- Reinforced fiberglass construction
- Hardened steel blades for extra strength and longer life

Description	Cat. No.
Grip-N-Strip™ End Stripper	45-227



- Handles all common BX, MCAP, MC and Flex cables
- Blade cuts armor without damage to internal conductors
- Splices cleanly through casings with only a few turns
- Handle knob stores up to six replacement blades

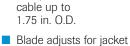


Description	Cat. No.
Replacement blades (5/pack)	35-781
Rotary Armored Cable Cutter	35-782

Round Cable Slitting and Ringing Tool

Cuts around cable jacket as well as slits the length of jacket for easy removal

Use with single or multiple conductor



thicknesses up to .125 in. Spare blade in handle base

I	Description	Cat. No.
(Cable Stripper for 1/4 in. to 3/4 in. O.D.	45-128
(Cable Stripper for 3/4 in. to 11/2 in. O.D.	45-129
	Replacement Blades for 45-128 and 45-129 (2/pkg.)	L-7486

Stripmaster® Wire Strippers

- One-step stripping enchances productivty
- Spring-action motion increases leverage and reduces operator fatigue
- Precision-ground, knife-type blades provide clean, accurate stripping

St. say
Cat. No.
45-092
45-262

Description	Cat. No.
Stripmaster® Wire Stripper, 10-22 AWG	45-092
Stripmaster® Wire Stripper, Coax RG-6	45-262
Stripmaster® Wire Stripper, 10-22 AWG	45-292

See Section D for complete Stripmaster® Wire Stripper line.



LASERedge™ pliers use high carbon, 1080 steel, which provides extra strength and hardness without sacrificing flexibility. It is one of the reasons our tools outperform the competition in performance

and durability. All of our LASERedge tools have laser-hardened blades and teeth, which are more precise and provide better durability for strenuous applications like cutting steel or ACSR.



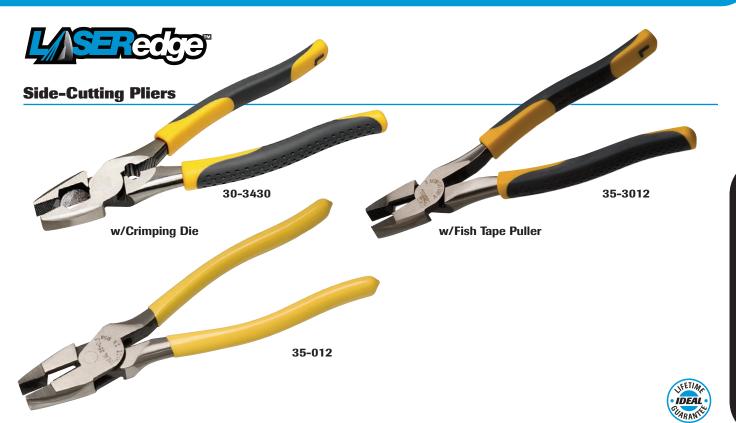












- Drop-forged, high-carbon steel construction withstands toughest applications
- Knife-to-anvil blades never need resharpening
- Cuts hardened wire, bolts and ACSR
- Laser-hardened blades and serrated jaws for long-term durability
- High-leverage design provides 40% more cutting power
- Unique reverse rivet protects smooth action of plier movement
- Vinyl-coated, comfort-grip handles for a secure grip

Description (Smart-Grip™ Handles)	Cat. No.
9-1/4 in. New England nose high-leverage w/fish tape puller	35-3012
9-1/4 in. New England nose high-leverage w/crimping die	30-3430
Description (Dipped Handles)	Cat. No.
9-1/4 in. New England nose high-leverage w/fish tape puller	35-012
9-1/4 in. New England nose high-leverage w/crimping die	30-430





All of the features of the Side-Cutting Pliers plus:

- Mirror-polished finish to maintain premium appearance
- Double-dipped grips for extra cushioning comfort

Description (Dipped Handles)	Cat. No.
9-1/4 in. New England high-leverage w/fish tape puller and crimping die	30-435

1-800-435-0705 for Customer Service





- Drop-forged, high-carbon steel construction withstands toughest applications
- Knife-to-anvil blades never need resharpening
- Laser-hardened blades cut hardened wire, bolts and ASCR
- Vinyl-coated, comfort-grip handles for a secure grip
- High-leverage design provides 40% more cutting power
- Models 35-029 and 35-3029 feature a convenient angled head for hard-to-reach areas and rocking out nails

Description (Smart-Grip™ Handles)	Cat. No.
8 in. High-leverage Diagonal	35-3028
8 in. High-leverage Diagonal w/angled head	35-3029
Description (Dipped Handles)	Cat. No.
8 in. High-leverage Diagonal	35-028
8 in. High-leverage Diagonal w/angled head	35-029



- Narrow profile head designed for working in tight areas
- Serrated jaws provide secure gripping surface
- Drop-forged, high-carbon steel construction
- Knife-to-anvil blades never need resharpening
- Laser-hardened blades cut hardened wire, bolts and ASCR
- Vinyl-coated, comfort-grip handles for a secure grip

Description (Smart-Grip™ Handles)	Cat. No.
8-1/2 in. Long Nose w/Cutter	35-3038
Description (Dipped Handles)	Cat. No.
6 in. Long Nose w/Cutter	35-036
7-3/4 in. Long Nose w/Cutter	35-037
8-1/2 in. Long Nose w/Cutter	35-038
8-1/2 in. w/Cutter & stripping holes for 12 & 14 AWG wire	35-039

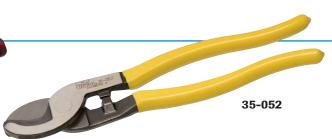


- Patented undercut tongue and groove design ensures solid grip
- Patented reinforced flange protects against breakage
- Laser-hardened teeth remain sharp longer
- Drop-forged, high-carbon steel construction
- Vinyl-coated, comfort-grip handles for a secure grip

Description (Smart-Grip™ Handles)	Jaw Opening (Inches)	Cat. No.
10 in. Tongue & Groove Pliers	2	35-3430
Description (Dipped Handles)	Jaw Opening (Inches)	Cat. No.
6-1/2 in. Tongue & Groove Pliers	7/8	35-426
9-1/2 in. Tongue & Groove Pliers	1-1/2	35-420
10 in. Tongue & Groove Pliers	2	35-430
12 in. Tongue & Groove Pliers	2-1/4	35-440
16 in. Tongue & Groove Pliers	4-1/4	35-460









- Drop-forged, high-carbon steel construction
- Precision-ground, hardened cutting edges provide accurate cuts without cable distortion
- Designed for maximum leverage with minimum effort
- Cuts 2/0 copper and 4/0 aluminum (not for use on ACSR)
- Vinyl-coated, comfort-grip handles

Description (Smart-Grip™ Handles)	Cat. No.
9-1/2 in. Cable Cutter	35-3052
Description (Dipped Handles)	Cat. No.
9-1/2 in. Cable Cutter	35-052



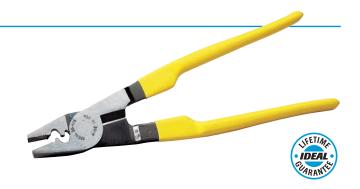
- Crimps bare or insulated terminals and splices on 10 - 22 AWG wire
- Knife-to-anvil blades never need resharpening
- Excellent leverage for easy crimping and cutting
- Drop-forged, high-carbon steel construction
- Vinyl-coated handles provide a solid, comfortable grip

Description (Smart-Grip™ Handles)	Cat. No.
9-3/4 in. Multi-Crimp Tool	30-3429
Description (Dipped Handles)	Cat. No.
9-3/4 in. Multi-Crimp Tool	30-429

Crimp Tool

- Crimps all IDEAL crimp sleeves
- Excellent leverage for right-angle, double-indent crimps
- Cuts and twists wire
- Vinyl-coated handles provide a solid, comfortable grip

Description	Cat. No.
Crimp Tool - 10-1/4 in.	30-425







WireMan™ pliers provide professional results for everyday use. These tools are the workhorse of electrical pliers; they are rugged yet precise, providing exceptional durability, easy cutting and a lifetime of quality use.



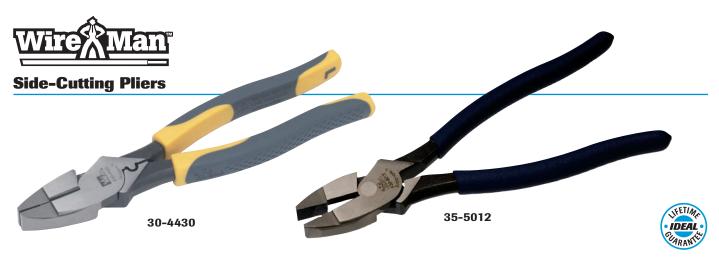








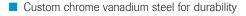




- Custom chrome vanadium steel for durability
- High leverage pivot requires less cutting force
- Sharp, knife-to-knife blades for easy cutting
- Induction hardened teeth for long life
- Cross-hatched jaws so wires won't slip when pulling
- Ergonomic handles for comfortable, all-day use

Description (Smart-Grip™ Handles)	Cat. No.
7 in. Cutting Pliers	30-4419
8 in. Side-Cutting Pliers	30-4420
9-1/4 in. Side-Cutting Pliers	35-4012
9-1/4 in. Side-Cutting Pliers w/crimp and fish tape puller	30-4430
B 1 11 (B) 11 11 11 1	2
Description (Dipped Handles)	Cat. No.
7 in. Cutting Pliers	Cat. No. 30-5419
1 (11)	
7 in. Cutting Pliers	30-5419





- High leverage pivot requires less cutting force
- Sharp, knife-to-knife blades for easy cutting
- Induction hardened teeth for long life
- Ergonomic handles for comfortable, all-day use

Description (Smart-Grip™ Handles)	Cat. No.
6 in. Diagonal-Cutting Pliers	35-4026
8 in. Diagonal-Cutting Pliers	35-4028
8 in. Diagonal-Cutting Pliers w/angled head	35-4029
Description (Dipped Handles)	Cat. No.
6 in. Diagonal-Cutting Pliers	35-5026
8 in. Diagonal-Cutting Pliers	35-5028
8 in. Diagonal-Cutting Pliers w/angled head	35-5029









IDEAL

- Custom chrome vanadium steel for durability
- High leverage pivot requires less cutting force
- Sharp, knife-to-knife blades for easy cutting
- Induction hardened teeth for long life
- Cross-hatched jaws so wires won't slip when pulling
- Ergonomic handles for comfortable, all-day use

Description (Smart-Grip™ Handles)	Cat. No.
6 in. Long-Nose Pliers w/Strip & Crimp	35-4035
6 in. Long-Nose Pliers	35-4036
8 in. Long-Nose Pliers	35-4038
Description (Dipped Handles)	Cat. No.
6 in. Long-Nose Pliers w/Strip & Crimp	35-5035
6 in. Long-Nose Pliers	35-5036
8 in. Long-Nose Pliers	35-5038



- Custom chrome vanadium steel for durability
- Ergonomic handles for comfortable, all-day use

Description (Smart-Grip™ Handles)	Cat. No.
10 in. Tongue & Groove Pliers	35-4430
Description (Dipped Handles)	Cat. No.
10 in. Tongue & Groove Pliers	35-5430





- High-leverage pivot requires less force
- Ergonomic handles for comfortable, all-day use
- Cuts, crimps and splices 10 22 AWG wire for insulated and non-insulated crimp connectors

***	35-5431	IDEAL .

Description (Smart-Grip™ Handles)	Cat. No.
9-1/4 in. Multi-Crimp Tool	30-4429
9-1/4 in. Multi-Crimp Tool - Bare Terminals	35-4431
Description (Dipped Handles)	Cat. No.
9-1/4 in. Multi-Crimp Tool	30-5429
9-1/4 in. Multi-Crimp Tool - Bare Terminals	35-5431





- - 35-5052
- IDEAL

- Custom chrome vanadium steel for durability
- High-leverage pivot requires less force
- Sharp, knife-to-knife blades for easy cutting
- Induction hardened teeth for long life
- Ergonomic handles for comfortable, all-day use

Description (Smart-Grip™ Handles)	Cat. No.
9 in. 2/0 Cable Cutter	35-4052
Description (Dipped Handles)	Cat. No.
9 in. 2/0 Cable Cutter	35-5052

Tenite Grips

- Fits LASERedge[™] and WireMan[™] Pliers
- Not insulated from electrical shock
- Boil in water to soften for easy installation onto handles



Description	Cat. No.
Replacement grips for 6 in. pliers (one pair)	35-006
Replacement grips for 7 in. pliers (one pair)	35-007
Replacement grips for 8 in. or 9 in. pliers (one pair)	35-008





Patented Wire-Nut® Wire **Connector Wrench accepts a** wide variety of connectors.



(Image actual size.)

Patented Wire-Nut® Wrench accepts a wide variety of IDEAL wire connectors (and others) including:

Ends

Accu-Loop™ Wire looping holes

IDEAL

ARAN











Wing-Nut®

Wire-Nut®

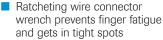
Twister®

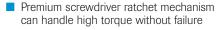
WingTwist™ / WireTwist™

9-in-1 Ratch-a-Nut™ **Screwdriver**









- Ergonomic, slip-free comfort grip
- Accepts Twist-a-Nut™ replacement bits
- Includes: 1/4 in. and 3/16 in. slotted, #1 & #2 Phillips, 1/4 in., 5/16 in., 7/16 in. nutdrivers, ratcheting screwdriver end, ratcheting wire connector wrench and wire-looping hole in handle

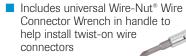
Description	Cat. No.
9-in-1 Ratch-a-Nut™ Screwdriver	35-988

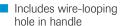
Replacement Bits (for both Ratch-a-Nut™ and Twist-a-Nut™)

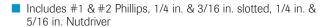
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Description	Cat. No.
1/4 in. slotted – #2 Phillips	35-911
3/16 in. slotted – #1 Phillips	35-912
1/4 in. slotted – #2 Square Recess	35-913
3/16 in. slotted – #1 Square Recess	35-914
#15 & #10 Torx®	35-915

Torx® is a trademark of Camcar division of Textron, Inc.

7-in-1 Twist-a-Nut™ **Screwdriver/Nutdrivers**







- #35-909 includes #1 & #2 Square Recess in place of #1 & #2 Phillips
- Twist-a-Nut[™] handle is interchangeable with new conduit deburrer head (#35-096) and 6-in-1 Tap Tool (#35-922)

Description	Cat. No.
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	35-908
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver with square tip	35-909

Replacement Bits (for both Ratch-a-Nut™ and Twist-a-Nut™)

The state of the s	,
Description	Cat. No.
1/4 in. slotted – #2 Phillips	35-911
3/16 in. slotted – #1 Phillips	35-912
1/4 in. slotted – #2 Square Recess	35-913
3/16 in. slotted – #1 Square Recess	35-914
#15 & #10 Torx®	35-915

Torx® is a trademark of Camcar division of Textron, Inc.



- Convenient Wire-Nut® Wire Connector Wrench in end of handle
- Wire-looping hole in handle
- Vapor-blasted tip prevents plate chipping
- Tough, chrome vanadium steel shank
- Precision ground tip provides secure fit in screw slot



Description	Cat. No.
#2 x 6 in. Robertson	30-330
1/4 in. x 4 in. Slotted	30-331
#2 x 4 in. Phillips	30-332
1/4 in. x 6 in. Slotted Cabinet Tip	30-333

6-in-1 Twist-a-Nut™ Tapping Tool



- Forms new threads, re-forms burred threads and cleans out obstructions
- Reversible, high-carbon tap with three clearly marked thread sizes on each end
- Handle is interchangeable with 7-in-1 Screwdriver (#35-908) and Conduit Deburrer (#35-083)

Description	Cat. No.
Twist-a-Nut™ Tapping Tool includes: 6-32, 8-32 & 10-32 on one tapping side, 10-24, 12-24 & 1/4-20 on the other	35-922
Twist-a-Nut™ Shaft assembly includes: Collar, 35-422 & 35-423	35-923

Twist-a-Nut™ Conduit **Deburring Tools**





- Deburrs inside and outside edges of 1/2 in., 3/4 in. and 1 in. thin wall conduit
- Hooded tip tightens EMT fitting set screws without slipping
- Accu-Loop™ wire looping holes
- Square tip "seats" much more quickly on fitting screws than slotted version
- Head removes and is interchangeable with IDEAL 7-in-1 Twist-a-Nut™ Screwdriver shaft (#35-908)
- Head can be used in drill or cordless screwdriver
- Universal Wire-Nut® Wire Connector Wrench in handle end eases installation of twist-on connectors
- Lifetime guarantee (excludes blades)



Description	Cat. No.
Conduit Deburring Tool, slotted tip	35-083
Conduit Deburring Tool - head only, slotted tip	35-096
Conduit Deburring Tool - #2 square tip	35-075
Conduit Deburring Tool - head only, #2 square tip	35-098
Replacement Blades (2/pack)	35-097

Twist-a-Nut™ Conduit Wiring Kit

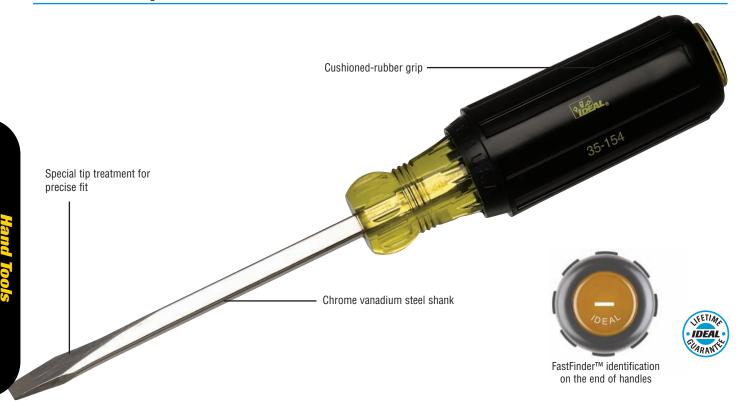
Includes Twist-a-Nut™ Screwdriver (35-908), Twist-a-Nut™ Deburring Head -Square Tip (35-098), Twist-a-Nut[™] Tap Tool Shaft (35-923), Three Spare Bits (1/4 in. slotted & #2 square, 3/16 in. slotted & #1 square, #10 & #15 Torx®), 8-Pocket Carrying Pouch (35-927)



- Nylon carrying pouch holds all three Twist-a-Nut™ tools plus room for four replacement bits or taps
- Strong easy-slide metal belt clip

Description	Cat. No.
Twist-a-Nut™ Combo Pack	35-926
Twist-a-Nut™ Carrying Pouch only	35-927

Cushioned-Grip Screwdrivers



8-Piece Screwdriver



Includes:

- 1/4 in. x 6 in. HD Cabinet
- 1/4 in. x 4 in. Square Shank HD Keystone
- 1/4 in. x 4 in. HD Keystone
- 5/16 in. x 6 in. Keystone
- 3/16 in. x 3 in. Cabinet
- 3/16 in. x 6 in. Cabinet
- Phillips #1 x 3 in.

Phillips #2 x 4 in. Description	Cat. No.
8-Piece Screwdriver Set	35-298

5-Piece Screwdriver Set

■ 3/16 in. x 6 in. Cabinet

Phillips #2 x 4 in.



Description	Cat. No.
5-Piece Screwdriver Set	35-297



- Identification mark on ends
- Vapor-blasted tip prevents plate chipping
- Precision ground tip provides secure fit in screw slot
- Square-shank models offer wrench-assisted turning
- Tough, chrome vanadium steel shank
- Cushioned rubber grips

Square Shank	Blade Length	Total Length	Cat. No.
1/4 in. Shank and tip	4 in.	8-3/8 in.	35-154
5/16 in. Shank and tip	6 in.	11 in.	35-156
5/16 in. Shank and tip	8 in.	13 in.	35-158

Round Shank	Blade Length	Total Length	Cat. No.
1/4 in. Shank and tip	1 in.	3-3/8 in.	35-161
1/4 in. Shank and tip	4 in.	8-3/8 in.	35-164
5/16 in. Shank and tip	6 in.	11 in.	35-166
5/16 in. Shank and tip	8 in.	13 in.	35-168



- Large diameter shank for tough applications
- Identification marks on ends
- Vapor-blasted tip prevents plate chipping
- Precision ground tip provides secure fit in screw slot
- Nickel-chrome plating for corrosion resistance
- Tough, chrome vanadium steel shanks
- Cushioned rubber grip

Description	Blade Length	Total Length	Cat. No.
1/4 in. Shank and tip	4 in.	8-3/8 in.	35-150
1/4 in. Shank and tip	6 in.	10-3/8 in.	35-151
1/4 in. Shank and tip	8 in.	12-3/8 in.	35-152
1/4 in. Shank and tip	10 in.	14-3/8 in.	35-153



- Vapor-blasted tip prevents plate chipping
- Identification mark on ends
- Precision ground tip provides secure fit in screw slot
- Nickel-chrome plating for corrosion resistance
- Tough, chrome vanadium steel shank
- Cushioned rubber grip

Description	Blade Length	Total Length	Cat. No.
3/16 in. Shank and tip	3 in.	6-3/4 in.	35-183
3/16 in. Shank and tip	4 in.	7-3/4 in.	35-184
3/16 in. Shank and tip	6 in.	9-3/4 in.	35-186
3/16 in. Shank and tip	8 in.	11-3/4 in.	35-188
3/16 in. Shank and tip	10 in.	13-3/4 in.	35-190



- Vapor-blasted tip prevents plate chipping
- Identification mark on ends
- Nickel-chrome plating for corrosion resistance
- Tough, chrome vanadium steel shank
- Cushioned rubber grip

Description	Blade Length	Total Length	Cat. No.
#1 Phillips	3 in.	6-3/4 in.	35-193
#2 Phillips	1 in.	3-3/8 in.	35-191
#2 Phillips	4 in.	8-3/8 in.	35-194
#2 Phillips	6 in.	10-3/8 in.	35-195
#3 Phillips	6 in.	11 in.	35-196





- Ideal for threading screws in switches, fixtures and anchors
- Identification mark on ends
- One-handed crank action for quick and easy use
- Vapor-blasted tip prevents plate chipping
- Precision-ground tip provides secure fit in screw slot
- Nickel-chrome plating for corrosion resistance
- Tough, chrome vanadium steel shank
- Cushioned rubber grip

Description	Total Length	Cat. No.
3/16 in. Shank and Tip	8-3/4 in.	35-200
#2 Phillips Tip and 1/4 in. Shank	9-3/4 in.	35-203



- Precise tip for square-recess screws
- Color-coded handle for easy identification
- Nickel-chrome plating for corrosion resistance
- Tough, chrome vanadium steel shank
- Cushioned rubber grip

Description	For Screw Sizes	Cat. No.
#0 x 4 in.	3, 4	35-690
#1 x 4 in.	5, 6, 7	35-691
#1 x 8 in.	5, 6, 7	35-692
#2 x 4 in.	8, 9, 10	35-693
#2 x 8 in.	8, 9, 10	35-694
#3 x 4 in.	12, 14	35-695
#3 x 8 in.	12, 14	35-696



- Heavy-duty construction for piercing, punching and scribing
- Identification mark on end
- Cushioned rubber grip

Description	Blade Length	Total Length	Cat. No.
Awl	3 in.	6-3/4 in.	35-202



- Holds screw when collar is extended
- Holds screw in place when installing in hard-to-reach locations
- Tough, chrome vanadium steel shank and comfort grip handle

Description	Blade Length	Total Length	Cat. No.
3/16 in. Slotted	6 in.	10 in.	35-406
#2 Phillips	7 in.	11 in.	35-404

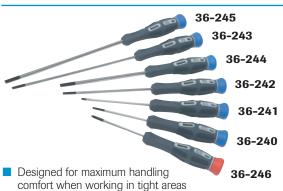


- Long, hollow shank handles longer bolts
- Identification and color coding on ends
- Nickel/chrome plated to resist rust and corrosion
- Cushioned rubber grips
- Models 35-292 and 35-295 fit Twister® Wire Connectors



Description	Shaft Length	Color	Cat. No.
3/16 in.	3-1/4 in.	Black	35-290
1/4 in.	3-1/4 in.	Red	35-291
5/16 in.	3-1/4 in.	Yellow	35-292
11/32 in.	3-1/4 in.	Green	35-293
3/8 in.	3-1/4 in.	Blue	35-294
7/16 in.	4 in.	Brown	35-295
1/2 in.	4 in.	Red	35-296

Slim Electronics



- Tough, chrome vanadium steel shank
- Phosphate tip for longer wear life
- Rotating cap for optimum control for precise centering
- Color-coded cap for easy identification

Description	Style	Blade Length	Cat. No.
3/32 in.	Cabinet Tip	2-1/2 in.	36-240
3/32 in.	Cabinet Tip	3 in.	36-241
1/8 in.	Cabinet Tip	4 in.	36-242
1/8 in.	Cabinet Tip	6 in.	36-243
5/32 in.	Cabinet Tip	4 in.	36-244
5/32 in.	Cabinet Tip	6 in.	36-245
#0 — 1/8 in.	Phillips Head	2-1/2 in.	36-246
7-Piece Set includes one each of 36-240 thru 36-246		36-248	
4-Piece Set includes one each of 36-240, -241, -242 & -246		36-249	

7-Piece Nutdriver Set



- 11/32 in. x 3-1/4 in.
- 3/8 in. x 3-1/4 in.
- 7/16 in. x 4 in.

Description	Cat. No.
7-Piece Nutdriver Set	35-299

10-in-1 Screwdriver/Nutdriver

Includes 1/4 in. slotted, #2 Phillips, 3/16 in. slotted, #1 Phillips, #1 & #2 square recess, #15 and #10 Torx® and 5/16 in. & 1/4 in. Nutdriver



Cushion grip for comfort and performance

VETIM.

IDEAL

Description	Cat. No.
10-in-1 Screwdriver/Nutdriver	35-910

Replacement Bits (for 10-in-1 Screwdriver)

Description	Cat. No.
1/4 in. slotted – #2 Phillips (2/pack)	35-940
3/16 in. slotted – #1 Phillips (2/pack)	35-941
#1 & #2 Square Recess (2/pack)	35-942
#15 & #10 Torx® (2/pack)	35-943

Torx® is a trademark of Camcar division of Textron, Inc.

5-in-1 Screwdriver/Nutdriver

Contains: 5/16 in. Nutdriver, #1 Phillips, #2 Phillips, 9/32 in. slotted and 3/16 in. slotted

Cushion grip for performance and comfort



Description	Cat. No.
5-in-1 Screwdriver/Nutdriver	35-905

Replacement Bits (for 5-in-1 Screwdriver)

Description	Cat. No.
#1 Phillips – 3/16 in. slotted	LA-4123
#2 Phillips – 9/32 in. slotted	LA-4124

Recessed Light Kit



- Long spring tool easily installs and removes spring
- Compact nutdriver is 2-1/4 in. providing added clearance in recess lighting
- Cushion grip for added comfort

Description	Cat. No.
Recessed Light Kit	35-698





- Extremely versatile: fits almost any drill (12V minimum)
- Cuts up to 750 MCM hard drawn copper, 1000 MCM aluminum*
- Heavy-duty gears and specially hardened blades for professional quality
- Rounded blade design minimizes cable distortion during cutting
- No need to mess with battery packs or special chargers; this tool works with the drill you already carry!



(Folding handle for storage.)

35-033

Description	Cat. No.
PowerBlade™ Cable Cutter	35-078
PowerBlade™ Replacement Handle	K-8947R
PowerBlade™ Replacement Blades (pair)	K-8906R
PowerBlade™ Replacement Torque Arm Assembly	K-8909
PowerBlade™ Replacement Carrying Case	K-8926

*Max. Jaw Opening - 2 in. Not for cutting steel or ASCR.

Long-Arm Cable Cutters

- High strength forged blades for ultimate durability
- Precision-ground jaws make clean cuts with minimal cable distortion
- Replaceable blades
- For copper and aluminum only. Not designed for steel or ACSR.

Description	Length	Cat. No.
250 MCM Long-Arm Cable Cutter	14 in.	35-031
500 MCM Long-Arm Cable Cutter	22 in.	35-032
1000 MCM Long-Arm Cable Cutter	32 in.	35-033
Replacement Head – 250 MCM (for 35-031)	_	35-031B
Replacement Head – 500 MCM (for 35-032)	_	35-032B
Replacement Head – 1000 MCM (for 35-033)	_	35-033B

CAUTION: Comfort-grip handles are not designed for protection against electrical shock. Do not use on live circuits.

Ratcheting Cable Cutter

- Cuts hard drawn copper up to 400 KCMIL (MCM) and soft copper, aluminum and multiple conductor cable up to 600 KCMIL (MCM)
- Hardened steel blades ensure consistent cuts and long-term durability
- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage

Description	Cat. No.
400 KCMIL (MCM) Ratcheting Cable Cutter*	35-056
Replacement blade (moveable side only)	35-085

*Max. Jaw Opening - 1.375 in. Not for cutting steel or ASCR.

Ratcheting Cable Cutter

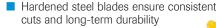
- 750 KCMIL Ratcheting Cable Cutter is designed to cut 750 KCMIL (MCM) and smaller hard-drawn copper and aluminum cables
- Hardened steel blades ensure consistent cuts and long-term durability
- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage
- Molded-in foot provides stability and leverage when making multiple cuts

Description	Cat. No.
750 KCMIL (MCM) Ratcheting Cable Cutter*	35-053
Replacement blade (moveable side only)	35-057

*Max. Jaw Opening - 2 in. Not for cutting steel or ASCR.

Telco Ratcheting Cable Cutters

■ Telco Ratcheting Cable Cutter jaw cuts up to 2,700 pair telephone cable and Stalpath® type communications cable



- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage
- Molded-in foot provides stability and leverage when making multiple cuts

Description	Cat. No.
Telco Ratcheting Cable Cutter*	35-055
Replacement blade (moveable side only)	35-054

*Max. Jaw Opening - 3 in. Not for cutting steel or ASCR.







- Handles all common BX, MCAP, MC and Flex cables
- Blade cuts armor without damage to internal conductors
- Splices cleanly through casings with only a few turns
- Handle knob stores up to six replacement blades

Description	Cat. No.
Replacement blades (5/pack)	35-781
Rotary Armored Cable Cutter	35-782



- Use with aluminum (6 AWG to 4/0) and copper (8 AWG to 250 KCMIL) wires
- Adjustable crimping nests with clearly marked gauges
- Lightweight and easy to operate
- Rugged cast steel construction for long-term durability
- Connections are UL Listed when using this tool with IDEAL Non-Insulated Terminals (#8 - #4 AWG).

Description	Cat. No.
Mechanical Indentor	88-843

Heavy-Duty Crimp Tool

- Crimp nests for 2, 4, 6 or 8 AWG and 8-38 mm² uninsulated terminals
- Rotating crimp nests eliminate costly die changes
- Decimal and metric wire sizes clearly marked on each crimp nest
- Comfort-grip handles for a secure grip
- Connections are UL Listed when using this tool with IDEAL Non-Insulated Terminals (#8 - #4 AWG).

Description	Cat. No.
Heavy-Duty Crimp Tool	83-005
o: - .	

Crimp Tool

- Crimps all IDEAL crimp sleeves
- Excellent leverage for rightangle, double-indent crimps
- Cuts and twists wire
- Vinyl-coated handles provide a solid, comfortable grip

WETIME - IDEAL - COLOR - SECONDARY
FUARANTE

Description	Cat. No.
Crimp Tool - 10-1/4 in.	30-425

Buchanan Construction Products Four-Way Crimp Tool

- Patented design ensures even compression and reliable connections
- Spring-loaded, camactuated plungers
- Fingertip adjustment for different connector sizes

Description	Cat. No.
Four-Way Crimp Tool	C-24

Ratchet Crimp Tool

- Crimps insulated or bare terminals and splices on 10 – 22 AWG wire
- Ratchet action
 prevents release prior
 to crimp connection —
 helps ensure uniform crimps
- Vinyl-coated handles provide a solid, comfortable grip

Description	Cat. No.
Ratchet Crimp Tool	83-001





Adjustable Wrenches

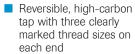


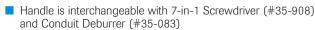
- Narrow profile head reaches into tight spaces
- Tight tolerance on thumbscrew won't loosen or wobble with use
- Extra wide jaw capacity with standard and metric markings
- Lightweight, non-conductive handle (not insulated)

Description	Jaw Capacity	Cat. No.
8 in. Adjustable Wrench	1-1/8 in.	35-020
10 in. Adjustable Wrench	1-5/16 in.	35-021

6-in-1 Twist-a-Nut™ **Tapping Tools**







Description	Cat. No.
6-in-1 Twist-a-Nut™ Tap Tool (includes 6-32, 8-32 & 10-32. 10-24, 12-24 & 1/4-20 taps)	35-923

Triple-Tap Tool

- Cleans and chases burred threads
- Taps three hole sizes

Description	Cat. No.
Triple Tap Tool (includes 10/24, 8/32, & 6/32 taps)	35-411
Triple Tap Tool (includes 10/32, 8/32, & 6/32 taps)	35-412

Replacement Taps (for 35-923, 35-411 and 35-412)

Thread Sizes	Replacement Tap Cat. No.
10/24, 8/32, & 6/32	35-421
10/32, 8/32, & 6/32	35-422
10/24, 12/24 & 1/4-20	35-423
6-32, 8-32 & 10-32 on one side, 10-24, 12-24 & 1/4-20 on the other side	35-922

IDEAL Wipes™ The Multi-Purpose Towel

- Pre-moistened wipes require no water
- Cleans dirt, grease, lube and grime
- Durable fabric scrubs without tearing
- Infused with natural hand moisturizers and Vitamin E
- Orange citrus scent

Description	Qty.	Cat. No.
IDEAL Wipes™, 12 in. x 9 in.	82/can	38-500

Forged-Steel Handled Hammer



- One-piece drop-forged, tempered-steel polished head and handle
- Long, straight claws simplify removal of electrical fixtures
- Comfortable, perforated anti-vibe grips
- Elongated neck for hitting inside boxes

Description	Cat. No.
18 oz. x 12-1/2 in. Electrician's Fiberglass-handled Hammer	35-210

Electric Engraving Tools

- Low-cost, industrial-quality marker quickly and easily engraves metal, glass, stone, ceramics, plastics, hard rubber, wood and many other hard materials
- Unique design reduces bouncing and provides smooth, easy writing
- Operates at 7,200 strokes per minute
- Stroke adjusts to vary depth of mark
- Includes carbide-tipped point for normal markings
- Diamond point available for engraving extra-hard materials (50 to 64 Rockwell, scale C)

Description	Cat. No.
Engraver w/carbide-tipped point — 120V, 60 Hz	11-111
Engraver w/carbide-tipped point & 3-conductor grounded cord & plug — 120V, 60 Hz	11-113
Carbide-tipped replacement point	11-200
Diamond replacement point	11-201



Automatic Blade Lock Measuring Tape

- Blade automatically stays out when extended
- Push button for smooth blade retraction
- Comfortable, shock-resistant rubber grip

Description	Cat. No.
Auto-Lock™ Tape Measure - 25 ft.	35-242



- Strong magnetic tip for one person measurement
- Durable nylon coated blade
- Full rubber jacket protects case

Description	Cat. No.
Mag-Tape™ Tape Measure - 25 ft.	35-238



- 9 in. aluminum frame with magnetic and V-grooved edges
- White windows provide easy reading of plumb level and 45° mitre in dim lighting

Description	Cat. No.
9 in. Torpedo Level	35-205

Hex-Key Sets

- 8650 steel construction
- Dual-durometer, slip-resistant



Description	Cat. No.
4 in. handle w/nine 3-in. keys (5/64 in., 3/32 in., 7/64 in., 1/8 in., 9/64 in., 5/32 in., 3/16 in., 7/32 in. & 1/4 in.)	35-146
5-1/4 in. handle w/five 5-in. keys (3/16 in., 7/32 in., 1/4 in., 5/16 in. & 3/8 in.)	35-147

Utility Knife

- Quick-change retractable blade system - no disassembly required
- Built in pull-line cutter
- Includes three blades in storage compartment

Description	Cat. No.
Utility Knife	35-300
Replacement blades – Universal (10/pack)	35-301

Pocket Knives



- 2-1/4 in. blade locks in position
- High-carbon stainless steel blade construction for extra strength and durability
- Durable Buyrate® non-slip handle
- Brass liners

Description	Cat. No.
Electrician's Knife w/spearpoint and screwdriver blade	35-285
Hawkbill Knife w/curved blade	35-286
Lineman's Jack Knife w/sheepfoot blade	35-287





Tool Kits featuring **L**

17-Piece Set -#35-809



16-Piece Set -#35-800



Set Includes:

- Four LASERedge™ Pliers with Smart-Grip™ Handles (#35-3012 9-1/4" Linesman w/fish tape puller, #35-3038 - 8" Long Nose, #35-3430 - 10" Tongue and Groove, #35-3052 – 9-1/2" Cable Cutter)
- #45-915 Kinetic™ Reflex™ T®-Stripper Wire Stripper
- #35-908 7-in-1 Twist-A-Nut™ Screwdriver
- #Five Cushion Grip Screwdrivers (#35-193 #1 x 3 Phillips, #35-194 #2 x 4 Phillips, #35-186 - 3/16" x 6 Slotted Cabinet Tip, #35-164 -1/4" x 4 Slotted round shank, #35-406 – 3/16" x 6 Screw holding slotted)
- #35-286 Hawkbill Knife
- #35-210 Electrician's Hammer
- #35-242 25' Auto-Lock™ Tape Measure
- #35-205 Torpedo Level
- #61-086 Vol-Con® XL Voltage/Continuity Tester
- #35-975 Tuff-Tote™ Premium Leather Tool Carrier

13-Piece Set -#35-790



Set Includes:

- Five LASERedge Pliers with dipped grips (#30-430 9-1/4" Linesman w/ crimper, #35-029 - 8" Offset Diagonal, #35-038 - 8" Long Nose, #35-430 -10" Tongue and Groove, #35-052 – 2/0 Cable Cutter)
- #45-120 Premium T®-5 T®-Stripper Wire Stripper
- #35-908 7-in-1 Twist-A-Nut™ Screwdriver
- Two Cushion Grip Screwdrivers (#35-194 #2 x 4 Phillips, #35-164 1/4 x 4 Slotted round shank)
- #35-083 Twist-A-Nut™ Conduit Deburring Tool
- #35-210 Electrician's Hammer
- #35-242 25' Auto-Lock™ Tape Measure
- #35-285 Electrician's Knife
- #61-086 Vol-Con® XL Voltage/Continuity Tester
- #61-201 Replacement battery
- #35-311 Tuff-Tote™ Leather Tool Pouch

16-Piece Set -#35-808



Set Includes:

- Three LASERedge™ Pliers with Smart-Grip™ handles (#35-3012 9-1/4" Linesman w/fish tape puller, #35-3038 - 8" Long Nose, #35-3430 - 10" Tongue and Groove)
- #45-915 Kinetic™ Reflex™ T®-Stripper Wire Stripper
- Four Cushion Grip Screwdrivers (#35-193 #1 x 3 Phillips, #35-194 #2 x 4 Phillips, #35-186 - 3/16" x 4 Slotted Cabinet Tip, #35-164 -1/4" x 4 Slotted round shank)
- #35-242 25' Auto-Lock™ Tape Measure
- #35-286 Hawkbill Knife
- #34-002 Medium Size Fuse Puller
- #35-205 Torpedo Level
- #35-462 Journeyman Electrician's Tote™

Set Includes:

- Four LASERedge Pliers with dipped grips (#35-012 9-1/4" Linesman w/fish tape puller, #35-038 - 8" Long Nose, #35-430 - 10" Tongue and Groove, #35-012 - 9-1/2" Cable Cutter)
- #45-415 Reflex™ T®-5 T®-Stripper Wire Stripper
- #30-428 Combo Crimp/Strip Tool
- Four Cushion Grip Screwdrivers (#35-193 #1 x 3 Phillips, #35-194 #2 x 4 Phillips, #35-186 – 3/16" x 6 Slotted Cabinet Tip, #35-164 – 1/4" x 4 Slotted round shank)
- #35-210 Electrician's Hammer
- #35-242 25' Auto-Lock™ Tape Measure
- #34-002 Pocket Fuse Puller
- #35-286 Hawkbill knife
- #35-261 Ergonomic Hacksaw
- #35-427 18" Large Mouth Bag

Tool Kits featuring **Pliers**

12-Piece Set -#35-805



6-Piece Set -#35-794



Set Includes:

- Four LASERedge™ Pliers with dipped grip handles (#35-012 9-1/4" Linesman w/fish tape puller, #35-028 – 8" Diagonal, #35-038 – 8" Long Nose, #35-430 – 10" Tongue and Groove)
- #45-120 Premium T®-5 T®-Stripper Wire Stripper
- Four Cushion Grip Screwdrivers (#35-193 #1 x 3 Phillips, #35-194 #2 x 4 Phillips, #35-186 - 3/16" x 4 Slotted Cabinet Tip, #35-164 -1/4" x 4 Heavy-Duty Slotted round shank)
- #35-242 25' Auto-Lock™ Tape Measure
- #10-466 Electrician's Leather Tool Pouch
- #10-398 Web Belt

Set Includes:

- One LASERedge Plier with dipped grip handles (#30-430 - 9-1/4" Linesman w/crimper)
- #45-120 Premium T®-5 T®-Stripper Wire Stripper
- #35-908 7-in-1 Twist-a-Nut™ Screwdriver
- #35-242 25' Auto-Lock™ Tape Measure
- #35-300 Utility Knife
- #35-505 Pocket Pal™ Tool Holster

Tool Kits featuring **Pliers**

12-Piece Set -#35-5805



5-Piece Set -35-5792



Set Includes:

- Four WireMan™ Pliers with dipped grip handles (#35-5012 9-1/4" Linesman, #35-5028 - 8" Diagonal, #35-5038 - 8" Long Nose, #35-5430 - 10" Tongue and Groove)
- #45-120 Premium T®-5 T®-Stripper Wire Stripper
- Four Cushion Grip Screwdrivers (#35-193 #1 x 3 Phillips, #35-194 -#2 x 4 Phillips, #35-184 - 3/16" x 4 Slotted Cabinet Tip, #35-164 -1/4" x 4 Slotted round shank)
- #25' Auto-Lock™ Tape Measure
- #10-466 Electrician's Leather Tool Pouch
- #10-398 Web Belt

Set Includes:

- One WireMan™ Plier with dipped grip handles (#30-5430 9-1/4" Linesman w/crimper)
- #45-120 T®-5 T®-Stripper Wire Stripper
- Two Screwdrivers (#35-194 #2 x 4 Phillips, #35-186 3/16" x 4 Slotted Cabinet Tip)
- #35-505 Pocket Pal™ Tool Holster



Premium Leather Line

Top of the line tool carriers are handcrafted from heavy, top-grain cowhide and slow tanned in natural oils to enhance the leather's inherent strength. Each bag is hand waxed for lasting protection against stains and moisture and is warranted for life. Natural or black leather - your choice.





Standard Leather Line

Leather that stands up to the job like no other material, these tool carriers are constructed of top-grain, natural cowhide and tanned for added strength and durability. Watch their color age to a deep tan over the years.

Fabric Line

Durable, lightweight, portable tool totes in rugged nylon polyester or heavyweight canvas provide the perfect tool storage. Convenient pockets mean easy access; inner compartments keep your tools organized and safe when not in use.



Tuff-Tote™ Ultimate Tool Carriers



- Eight-inch square tool carrier features two divided inside compartments with six screwdriver loops each, one large center compartment, four outside pockets and eight outside tool loops
- Exclusive leather-wrapped grab handle for carrying comfort
- Removable shoulder strap helps relieve lower back strain
- Unique stand-alone design keeps tools standing upright for easy identification and access
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability
- Oil and moisture-resistant reinforced bottom

Description	Cat. No.
Premium Leather Carrier w/shoulder strap	35-975
Premium Black Leather Carrier w/shoulder strap	35-975BLK
Standard Leather Carrier w/shoulder strap	35-325

Tuff-Tote™ Tool Carriers



- Convenient 6 in. x 8 in. tool carrier with four center screwdriver slots, two interior compartments, two divided outside pockets and four outside tool loops
- Exclusive leather grab handle for carrying comfort
- Removable shoulder strap helps relieve lower back strain
- Unique stand-alone design keeps tools standing upright for easy identification and access
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability
- Oil and moisture-resistant reinforced bottom

Description	Cat. No.
Premium Leather Carrier w/shoulder strap	35-969
Premium Black Leather Carrier w/shoulder strap	35-969BLK

Tuff-Tote™ Tool Pouches



- Eight-pocket, belt-mounted pouch features large utility compartment with two dividers and six screwdriver loops, seven outside pockets, release snaps and tape chain
- Exclusive leather grab handle for carrying comfort
- Removable shoulder strap helps relieve lower back strain
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability
- Tunnel belt loop accommodates belts up to 2-1/4 in. wide

Description	Cat. No.
Premium Leather Pouch w/shoulder strap	35-950
Premium Black Leather Pouch w/shoulder strap	35-950BLK

Electrician's Tool Pouch

- Seven-pocket tool pouch
- Full length belt tunnel
- Chain tape lanyard



	Description	Cat. No.
Γ	Electrician's Tool Pouch	10-466

Hip Holster Tool Pouches

- Compact, multi-pocket holsters
- Heavy-duty leather construction
- Riveted corners for long life

lape measure holder	
Description	Cat. No.
6-Pocket Hip Holster, Black	35-784BLK
3-Pocket Hip Holster, Standard	35-964

Tuff-Tote™ **Tester Pouches**

- Fits most hand-held testers
- Easy-access top
- Convenient belt strap



Note: Tester sold separately

Description	Cat. No.
Premium Leather Pouch w/belt strap	35-956
Premium Black Leather Pouch w/belt strap	35-956BLK
Standard Leather Pouch w/belt strap	35-339

Hammer Holder

- Heavy-duty leather construction
- Riveted steel hammer loop
- Fits on all sizes of tool belts



Description	Cat. No.
Hammer Holder	10-399

Shoulder Straps



- Nickel-plated hardware for long-term durability and corrosion resistance
- 2-in. wide shoulder pad for added comfort

Description	Cat. No.
Premium Leather Strap	35-965
Premium Black Leather Strap	35-965BLK
Standard Leather Strap	35-338



■ Nickel-plated hardware for long-term durability and corrosion resistance

Description	Cat. No.
Premium Leather Belt – 2 in. x 48 in.	35-995
Premium Black Leather Belt – 2 in. x 48 in.	35-995BLK
Standard Leather Belt – 1-3/4 in. x 46 in.	35-316
Web Belt	10-398



Pocket Pal™ Tool Holster

- Protects pocket from sharp tools
- Doubles tool carrying capacity
- Can be worn in pocket or on belt



Description	Cat. No.
Pocket Pal™ Tool Holster	35-505

Note: Tools sold separately.

Belt Bag™ Supplies Pouch

- Holds wire connectors, staples, and other supplies ready for use on the job
- Easy access opening closes automatically to keep supplies safely retained until needed



Description	Cat. No.
Belt Bag™ Supplies Pouch	35-405

Divider Pouch™ Small Parts Bag

- Designed to provide perfect small parts storage - keeps parts separate and organized
- Six internally divided 5-in. deep pockets
- Convenient drawstring protects contents from spillage
- Convenient handle loop
- Sized to stack in 5-gallon buckets
- Durable nylon polyester construction

Description	Cat. No.
Divider Pouch™ Small Parts Bag	35-655

Note: Wire Connectors sold separately.

Bucket Bag Tool Carrier

- 11-1/2 in. deep bag fits over the rim of a standard 5-gallon bucket
- Forty-three convenient pockets - 36 pleated outside and inside pockets
- Rugged nylon polyester construction



Description	Cat. No.
Bucket Bag Tool Carrier	35-665

Note: Tools sold separately

Zipper Pouches



- Durable, water resistant material
- Heavy duty, self-repairing zippers

Description	Cat. No.
Zipper Pouch, 10-1/2 in. long	35-402
Zipper Pouch, 12-1/2 in. long	35-403

Supplies Apron



- Two pockets for connectors and fasteners, each 8 in. x 15 in.
- Natural duck construction

Description	Cat. No.
Supplies Apron	35-474



- Top opens completely for easy access to large tools reinforced to hold itself open
- Measures 9 in. wide x 12 in. deep with outside and inside pockets for convenient hand tool storage
- Rugged zipper closure helps prevent tool loss
- Removable shoulder strap
- Durable multi-ply construction

Description	Cat. No.
Large Mouth Bag — 13 in. long	35-410
Large Mouth Bag – 16 in. long	35-418
Large Mouth Bag – 18 in. long	35-427

Note: Tools sold separately.

Journeyman Electrician's Tote™

Compact and versatile design

Carry as a hand-tote, shoulder-tote or tool-belt

Includes removable shoulder strap and belt

Durable multi-ply construction



Description	Cat. No.
Journeyman Electrician's Tote™	35-462

Master Electrician's Tote™ Spacious and durable design

Organizes and displays tools for fast access

Includes removable shoulder strap

Durable multi-ply construction



Description	Cat. No.
Master Electrician's Tote™	35-441

Mechanic's Tool Bag



- Eight narrow inside pockets designed to hold small tools
- Two side pockets with closeable snaps for large tools or loose
- Double inside liner and rigid bottom prevent bag distortion
- Durable nylon polyester construction

Description	Cat. No.
Mechanic's Tool Bag	35-535

Note: Tools sold separately.



Insulated Tools

The IDEAL insulated tool line creates a perfect blend of safety, comfort and precision functionality. Each tool features double insulated Santoprene® handles with a soft, easy-to-grip outer surface. In addition to the ergonomic qualities found in our tools, the insulated coating process acts as an 'at-a-glance' safety check. If the orange outer coating reveals any of the inner yellow surface, an electrician will know that this tool needs to be replaced.

Tools feature:

- First UL tested and classified insulated pliers
- Each one designed and tested to meet ASTM F1505-01, EN DIN, and IEC 60 900 test standards
- Individually tested and VDE certified to 1000V AC (1500V DC)
- Meets OSHA requirements for insulated tools





Whenever possible, always de-energize lines and equipment prior to working on or around them. 1000V insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source. Work around energized circuits should only be done when absolutely necessary and only by qualified technicians. Property damage, personal injury or death may result if the following warnings are not heeded:

- · Do not use any insulated tool if the insulation cracks, breaks or becomes damaged in any way. Destroy all dual-layer tools if the inner yellow layer shows through the orange outer layer.
- · Do not touch the uninsulated portion of an insulated tool or any conductive object when either might contact an energized source.
- Tools must be kept clean and dry for proper insulating properties.
- · Always inspect insulated tools before use.
- · Use additional protection by wearing protective clothing and approved eye pro-
- · Always use tools that are specifically designed for the task.
- · These tools meet UL 22PP, ASTM F1505-01 and IEC 60900 standards for insulated tools.
- · Always follow OSHA 1910 S and NFPA 70E safety requirements when doing electrical work.

REGULATIONS

Testing:

• Every 1000V insulated tool we sell is individually tested to ensure no failure when subjected to live current.

UL and VDE Certification:

Listed below are some of the tests we perform in order to pass certification:

- Tools are immersed in water for 24 hours, then tested under current for 3 minutes to ensure no current leakage or sparkover occurs.
- After being stored for 168 hours at -40° C (-40° F), tools are dropped to ensure no damage from impact.
- After being stored for 168 hours at +70° C (158° F), a tensile load is applied to ensure the grip is firmly bonded to the tool.
- Tools are subjected to flame for 10 seconds to ensure no flammability of the

OSHA Regulations:

OSHA 1910.335(a)(2)(i) When working near exposed energized conductors or circuit parts, each employee shall use insulated tools or handling equipment if the tools or handling equipment might make contact with such conductors or parts. OSHA 1910.335 (a)(1)(i) Employees working in areas where there are potential electrical hazards shall be provided with, and shall use, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be per-

Make sure you are in compliance by providing and using IDEAL insulated tools!

26-Piece Journeyman Kit - #35-9302



Kit Includes:

- $\bullet~$ Four insulated pliers (#30-9430 9-1/4 in. Linesman w/crimper, #35-9029 -8 in. Offset diagonal, #35-9038 – 8-1/2 in. Long Nose, #35-9430 – 10 in. Tongue and Grove)
- Eight insulated screwdrivers (#35-9321 1/8 x 4 in. slotted, 3/16 x 5 in. slotted. #35-9323 - 1/4 x 6 in. slotted. #35-9324 - 5/16 x 7 in. slotted. #35-9325 - 3/8 x 8 in. slotted, #35-9310 - #1 x 3 Phillips, #35-9311 -#2 x 4 in. Phillips, #35-9312 - #3 x 6 in. Phillips)
- Six insulated nutdrivers (#35-9330 3/16 x 5 in., #35-9331 1/4 x 5 in., #35-9332 - 5/16 x 5 in., #35-9333 - 3/8 x 5 in., #35-9334 - 7/16 x 5 in., #35-9335 - 1/2 x 5 in.)
- #35-9052 9-1/2 in. insulated High-Leverage Cable Cutter
- #30-9429 9-3/4 in. insulated Multi-Crimp Tool
- #45-9615 Insulated Reflex™ Super T®-Stripper Wire Stripper
- #45-9120 Insulated Wire Stripper Cutter
- #35-9340 Insulated Electrician's Skinning Knife
- #61-063 Volt-Sensor® NCV Tester
- #34-002 7-1/2 in. Non-Conductive Fuse Puller
- #35-9352 -Heavy-Duty Soft Tool Case



18-Piece Standard Kit - #35-9301



Kit Includes:

- Four insulated pliers (#30-9430 9-1/4 in. Linesman w/crimper, #35-9029 8 in. Offset diagonal, #35-9038 - 8-1/2 in. Long Nose, #35-9430 - 10 in. Tongue and Grove)
- Eight insulated screwdrivers (#35-9320 1/8 x 4 in. slotted, #35-9321 $3/\overline{16} \times 5$ in. slotted, #35-9323 - 1/4 x 6 in. slotted, #35-9324 - 5/16 x 7 in. slotted, #35-9325 - 3/8 x 8 in. slotted, #35-9310 - #1 x 3 Phillips, #35-9311 - #2 x 4 in. Phillips, #35-9312 - #3 x 6 in. Phillips)
- #35-9052 9-1/2 in. Insulated High-Leverage Cable Cutter
- #45-9615 Insulated Reflex™ Super T®-Stripper Wire Stripper
- #35-9340 Insulated Electrician's Skinning Knife
- #61-063 Volt-Sensor® NCV Tester
- #34-002 7-1/2 in. Non-Conductive Fuse Puller
- #35-9351 Heavy-Duty Soft Tool Case



10-Piece Basic Kit - #35-9300



Kit Includes:

- Three insulated pliers (#34-9430 9-1/4 in. Linesman w/crimper, #35-9029 8 in. Offset diagonal, #35-9038 – 8-1/2 in. Long Nose)
- Three insulated screwdrivers (#35-9321 3/16 x 5 in. slotted, #35-9323 -1/4 x 6 in., #35-9311 - #2 x 4 in, Phillips)
- #35-9052 9-1/2 in. Insulated High-Leverage Cable Cutter
- #45-9615 Insulated Reflex™ Super T®-Stripper Wire Stripper
- #34-002 7-1/2 in. Non-Conductive Fuse Puller
- #35-9350 Heavy-Duty Soft Tool Case





Insulated Pliers

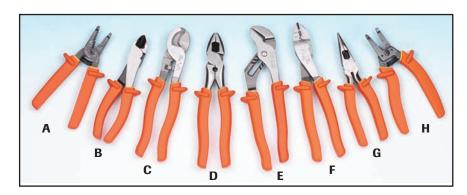


Fig.	Description	Cat. No.
А	Premium T®-Stripper Wire Stripper	45-9120
В	8 in. Diagonal Cutting Pliers w/angled head	35-9029
С	9-1/2 in. High-Leverage Cable Cutter	35-9052
D	9-1/4 in. Side Cutting Linesman Pliers	30-9430

Fig.	Description	Cat. No.
Е	10 in. Tongue and Groove Pliers	35-9430
F	9-3/4 in. Multi-Crimp Tool	30-9429
G	8-1/2 in. Long-Nose Pliers	35-9038
Н	Reflex™ Super T®-Stripper Wire Stripper	45-9615



Description	Shaft Length	Cat. No.
#1 Phillips Screwdriver	3 in.	35-9310
#2 Phillips Screwdriver	4 in.	35-9311
#3 Phillips Screwdriver	6 in.	35-9312
1/8 in. Slotted Screwdriver	4 in.	35-9320
3/16 in. Slotted Screwdriver	5 in.	35-9321
7/32 in. Slotted Screwdriver	7 in.	35-9322
1/4 in. Slotted Screwdriver	6 in.	35-9323
5/16 in. Slotted Screwdriver	7 in.	35-9324
3/8 in. Slotted Screwdriver	8 in.	35-9325

Screwdriver Kit	Cat. No.
9-Piece Insulated Screwdriver Kit with hard case (Includes all nine screwdrivers listed above.)	35-9303

Insulated Nutdrivers

Description	Shaft Length	Cat. No.
3/16 in. Hex Nutdriver	5 in.	35-9330
1/4 in. Hex Nutdriver	5 in.	35-9331
5/16 in. Hex Nutdriver	5 in.	35-9332
3/8 in. Hex Nutdriver	5 in.	35-9333
7/16 in. Hex Nutdriver	5 in.	35-9334
1/2 in. Hex Nutdriver	5 in.	35-9335
9/16 in. Hex Nutdriver	5 in.	35-9336

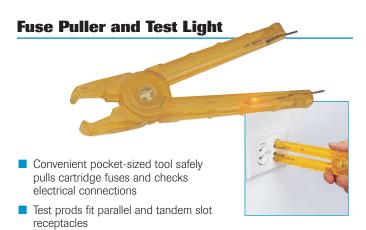
Nutdriver Kit	Cat. No.
7-Piece Insulated Nutdriver Kit with hard case (Includes all seven Nutdrivers listed above.)	35-9304

Insulated Knife



Description	Cat. No.
Insulated Electrician's Skinning Knife	35-9340

Cases	
Description	Cat. No.
Soft Zipper Case for Basic Kit (35-9300)	35-9350
Soft Zipper Case for Standard Kit (35-9301)	35-9351
Soft Zipper Case for Journeyman Kit (35-9302)	35-9352
Hard Case for Screwdriver Kit (35-9303) & Nutdriver Kit (35-9304)	35-9353



- Built-in resistors limit current flow to eliminate false indication
- For 9/16 in. to 1 in. fuses
- For use on fuses to 100A/250V and 60A/600V
- Test capacity from 100V to 600V AC/DC

Description	Cat. No.
Fuse Puller & Test Light	34-012



- Maximum efficiency and convenience for removing or replacing cartridge-type fuses
- Three sizes handle fuses ranging from 0 to 600A
- Fully insulated, high-dielectric, glass-filled polypropylene construction
- Notched handles provide safe, no-slip grip
- Clearly marked amperage ranges
- Exceed MIL specifications

Description	Cat. No.
Small Puller for 250V, 9/32 in. to 1/2 in. dia. fuses; 5 in. long	34-001
Medium Puller for 0 to 100A/250V & 600V, 1/2 in. to 1 in. dia. fuses; 7-1/2 in. long	34-002
Large Puller for 31 to 600A/250V & 31 to 400A/600V, 3/4 in. to 2-1/2 in. dia. fuses; 11-3/4 in. long	34-003

Fuse Pullers



- Molded of tough, high-impact nylon for greater strength
- No-slip gripping surface and protective finger stops for added

Description	Cat. No.
Small Puller for 0 to 30A/250V, 1/4 in. to 1/2 in. dia. fuses; 5 in. long	34-015
Large Puller for 0 to 100A/250V & 0 to 60A/600V, 9/16 in. to 1 in. dia. fuses; 7-1/4 in. long	34-016

1000V Insulated Screw-Holding **Screwdriver**



- Holds screw in place when installing in hard to reach areas
- Easy to start screw when wearing gloves

Description	Cat. No.
1000V Insulated Screw Holding Screwdriver, 3/16 x 6 in. slotted Tip	35-9406



Cutting & Holemaking Tools

IDEAL cutting tools offer a powerful line-up that includes...

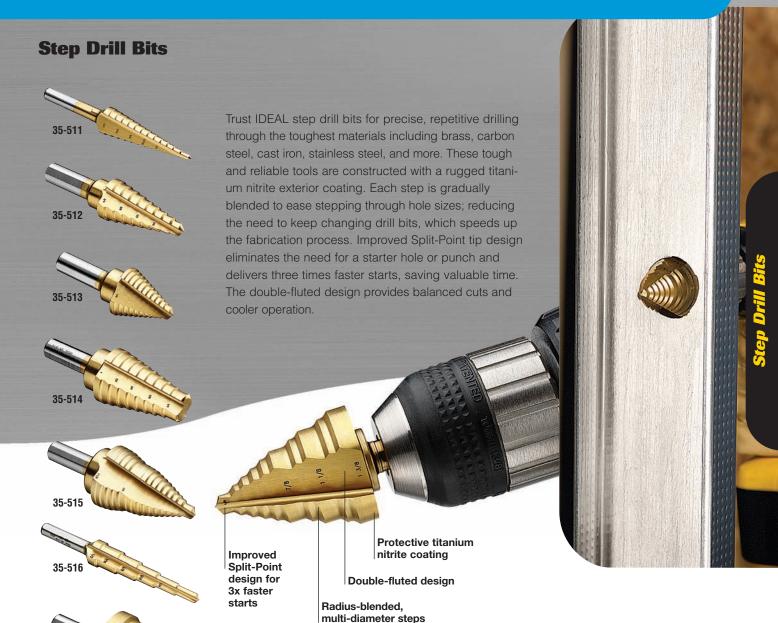
- New T.K.O. Carbide-Tipped Hole Cutters provide extreme productivity gains over traditional knockouts, even through stainless steel!
- A new line of Bul-Z-Eye[™] Self Feed Wood Boring Bits with twin cutting edges and superior construction that cuts smoother and faster holes than the competition

■ Superior step drill bits that deliver! Dual fluted, titanium nitride coated bits with the NEW split-point self starting feature, deliver faster cuts, improved performance and longer tool life than conventional bits.

■ Bi-metal reciprocating blades for the toughest applications. **Engineered bi-metal blades** last up to ten times longer than standard carbon steel blades.

- A broad line of flexible drill bits and specialty wood bits that deliver superior performance at any job site.
- An expanded range of hacksaws and allpurpose hand saws and blades.





Drill Diameter Sizes (Inches)	No. of Hole Sizes	Step Increments (Inches)	Step Thickness (Inches)	Shank Dia. (Inches)	Cat. No.
1/8 to 1/2	13	1/32	1/8	1/4	35-511
1/4 to 3/4	9	1/16	1/8	3/8	35-512
1/4 to 7/8	11	1/16	1/16	3/8	35-513
1/2 to 1	8	1/16	1/8	3/8	35-514*
1/4 to 1-1/8	16	1/16	1/16	3/8	35-515
3/16 to 1/2	6	1/16	3/8	1/4	35-516
1/4 to 1-3/8	10	1/32	1/16 to 1/4	3/8	35-517

All shanks are 1 in. length.

*Requires pilot holes.

Electrician's **Step Bit Kit**

- Durable blow-molded case securely holds and protects
- Kit includes four step bits (35-511, 35-513, 35-515 and 35-517)
- Kit provides a solution for every electrical hole size between 1/8 in. and 1-3/8 in.



Description	Cat. No.
Electrician's Step Bit Kit	35-520



Carbide Tipped Hole Cutters

Introducing the new TKO™ Carbide Tipped Hole Cutters from IDEAL INDUSTRIES, INC. TKO cutters offer the most efficient and clean cutter replacement for traditional knockouts, by



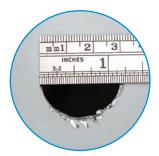
making smooth holes in a fraction of the time at a fraction of the cost. Specifically designed to cut sheet metal, TKO cutters will even cut stainless steel with fine grained, carbide tips. The innovative design includes the exclusive SmoothStart™ replaceable pilot drill, which guides the cutter to the surface, avoiding cutter damage and providing smoother holes. An integral overdrill flange prevents cutter penetration beyond the sheet metal. When it comes to quality, performance and durability, IDEAL is the professional's choice for carbide tipped hole cutters.

Carbide-Tipped Hole Cutters

Hole Size (Inches)	Conduit & Pipe Size (Inches)	Cat. No.
3/4	_	36-300
7/8	1/2	36-301
1	_	36-302
1-1/8	3/4	36-303
1-1/4	_	36-304
1-3/8	1	36-305
1-7/16	_	36-306
1-1/2	_	36-307
1-3/4	1-1/4	36-308
2	1-1/2	36-309
2-1/2	_	36-310







IDEAL TKO™

Competitor

IDEAL provides smoother, more precise hole than competitors (holes cut with 1-1/8 in. cutters)



Available in a full range of sizes from 1 in. to 2-1/2 in.

SmoothStart™ Replacement Pilot Drill

Exclusive! SmoothStart™ pilot guides cutter to surface providing smoother holes and avoiding cutter damage.

epiacement	
ot Sold Sold Sold Sold Sold Sold Sold Sold	/

Description	Cat. No.
SmoothStart™ Replacement Pilot Drill	36-312

4-Piece Kit

Includes the three most common sizes along with a spare SmoothStart™ pilot bit and a convenient carrying case



Description	Cat. No.
4-Piece Carbide Hole Cutter Kit — Includes SmoothStart™ Replacement Tip, 7/8 in., 1-1/8 in., 1-3/8 in.	36-311

Integrated overdrill flange prevents penetration beyond the sheet metal.





Integral arbor provides smoother, more acurate holes than hole saws or two-piece carbidetipped cutters

Integraded overdrill flange prevents penetration beyond the sheet metal

Ejection spring effortlessly ejects slug

Exclusive SmoothStart™ pilot drill guides cutter

See how IDEAL TKO can save time...

Total time using the IDEAL 30 Seconds





Total time using the competitors' knockout tool More than 6 Minutes















Bi-Metal Hole Saws

IRONMAN™ Bi-metal hole saws from IDEAL INDUSTRIES, INC, with re-engineered bi-metal construction, a thick "flex-free" backing plate, and variable sized teeth, IDEAL IRONMAN™ hole saws will rival the cutting speed and longevity of any in the industry. The bi-metal construction cuts metal, wood and plastics including: tool and stainless steel, nail embedded wood, plywood, and pipe. An extensive list of 51 sizes, effective accessories, and kits are available to meet all your cutting needs. When it comes to quality, performance and durability, IDEAL is the professional's choice for hole saws.

New improved solid plate design resists flexing of the new hole saw for clean true holes and added durability Bi-metal construction combines hardened and durable tool steel teeth welded to fatigue resistant body for long and consistent cutting life Variable sized teeth clear chips away from the work quickly for faster cuts and reduced vibration 1-5/8 in. cutting depth cuts through 2' x 4's on the first cut





- Thicker, FLEX FREE backing plate for clean true holes and longer tool life
- Improved bi-metal construction for long life and durability
- Variable pitch tooth geometry for fast cutting and reduced
- Cuts all types of machinable metal including stainless steel, wood, nail embedded wood, plastic and fiberboard

	Pipe Tap	Pipe Entrance	
Saw Diameter (Inches)	Size* (Inches)	Size* (Inches)	Cat. No.
Use Arbor No. 35-391, 35-392 o		(IIIGIIGS)	oat. No.
9/16	_	_	35-340
5/8	_	_	35-341
11/16	_	_	35-342
3/4	1/2	3/8	35-343
13/16 7/8	3/4	- 1/2	35-344 35-345
15/16	_	_	35-346
1	_	_	35-347
1-1/16	_	- 0.4	35-348
1-1/8 1-3/16	1	3/4 —	35-349 35-350
Use Arbor No. 35-394,35-536 or 3	35-537		00 000
1-1/4	_	_	35-351
1-5/16	_	_	35-352
1-3/8	_	1	35-353
1-7/16	_	_	35-354
1-1/2	1-1/4	_	35-355
1-9/16	_	_	35-356
1-5/8	_	_	35-357
1-11/19	_	_	35-358
1-3/4	1-1/2	1-1/4	35-359
1-13/16	_	_	35-360
1-7/8	_	_	35-361
2	_	1-1/2	35-362
2-1/16	_	_	35-363
2-1/8	_	_	35-364
2-1/4	2	_	35-365
2-5/16	_	_	35-366
2-3/8	_	_	35-367
2-1/2	_	2	35-368
2-9/16	_	_	35-369
2-5/8	2-1/2	_	35-370
2-3/4	_	_	35-371
2-7/8	_	_	35-372
Use Arbor No. 35-394, 35-536, 35	5-537 or 35-53	8	
3	_	2-1/2	35-373
3-1/8	_	_	35-374
3-1/4	3	_	35-375
3-3/8	_	_	35-376
3-1/2	_	_	35-377
3-5/8	_	3	35-378
3-3/4	3-1/2	_	35-379
3-7/8	_	_	35-380
4	_	_	35-381
4-1/8	_	3-1/2	35-382
4-1/4	4	_	35-383
4-3/8	_		35-384
4-1/2	_	4	35-385
4-3/4	4-1/2	_	35-386
5	_	_	35-387
5-1/2	_	_	35-388
5-3⁄4	_		35-389
6	_	_	35-390

^{*}All pipe sizes listed in the Pipe Tap Size and Pipe Entrance Size columns are standard industry sizes. All pipes are sized by the nominal inside diameter.

Hole Saw Arbors

Durable steel construction means years of long-lasting performance. Set-screw in body allows easy replacement of the pilot drill. Save valuable time through this versatile design. Instantly change hole saws without tools and without having to remove the arbor from the chuck.

Shank Size	Thread Size	Chuck Size	Fits Hole Saw Sizes	Cat. No.
1/4 in. Round	1/2-20 in.	1/4 in.	9/16 - 1-3/16 in.	35-391
3/8 in. Hex	1/2-20 in.	3/8 in.	9/16 - 1-3/16 in.	35-392
7/16 in. Hex	1/2-20 in.	1/2 in.	9/16 - 1-3/16 in.	35-393
7/16 in. Hex	5/8-18 in.	1/2 in.	1-1/4 - 6 in.	35-394
7/16 in. Hex	5/8-18 in.	1/2 in.	1-1/4 - 6 in.	35-536
3/8 in. Hex	5/8-18 in.	3/8 in.	1-1/4 - 6 in.	35-537
7/16 in. Hex	5/8-18 in.	1/2 in.	2 - 6 in.	35-538

Replacement Pilot Drills for Hole Saw **Arbors**

Split point pilot drills start on contact for faster penetration and less walking.



Description	Cat. No.
4-1/2 in. x 1/4 in. – Fits 35-391, 35-393, 35-394 & 35-538 arbors	35-397
3-1/4 in. x 1/4 in. – Fits 35-392, 35-536 & 35-537 arbors	35-398

Arbor Extension

For boring jobs that require a longer reach, arbor extensions add up to 18 in. length and can be easily connected to IDEAL hole saw arbors.

Description	Cat. No.
Extension for 7/16 in. Arbors, 12 in. long	35-396

Adjustable Can Light Hole Saws

Cuts drywall and ceiling tile

Self-sharpening carbide coated cutting blades

Includes two dust shields to minimize clean up



Description	Cat. No.
Adjustable Can Light Hole Saw – 10 sizes from 2-1/2 in. to 7 in.	35-598
Adjustable Can Light Hole Saw – 13 sizes from 6-1/4 in. to 10-3/8 in.	35-599

Hole Saw Kits

Electrician's **Hole Saw Kit**

- Reliable 8-piece kit in a durable plastic case
- Find electrical sizes for pipe and conduit through 2 in.



Kit 35-400 Includes:

Description	Cat. No.
Hole Saw sizes 7/8 in., 1-1/8 in., 1-3/8 in., 1-3/4 in., 2 in. & 2-1/2 in. Also includes arbor models 35-393 & 35-394	35-400

14-Piece Electrician's **Hole Saw Kit**

- Generous 14-piece kit offers a tremendous selection
- You'll find electrical sizes for pipe and conduit through 4 in.
- Sturdy plastic case survives extra wear and tear



Kit 35-401 Includes:

Description	Cat. No.
Hole Saw sizes 7/8 in., 1-1/8 in., 1-3/8 in., 1-3/4 in., 2 in., 2-1/2 in., 3 in., 3-5/8 in., 4-1/8 in., 4-1/2 in. Also includes arbor models 35-391, 35-393 & 35-394 and extension bar 35-396.	35-401

19-Piece Master Electrician's **Hole Saw Kit**

- For electrical, industrial and all-purpose maintenance needs
- 19-piece kit comes in sturdy durable plastic case
- Plumbing and electrical sizes for pipe and conduit through 4 in.



Kit 35-518 Includes:

Description	Cat. No.
Hole Saw sizes 3/4 in., 7/8 in., 1 in., 1-1/8 in., 1-3/8 in., 1-1/2 in., 1-3/4 in., 2 in., 2-1/4 in., 2-1/2 in., 3 in., 3-5/8 in., 4-1/8 in. & 4-1/2 in. Also includes arbor models 35-393, 35-394, pilot drill 35-397 (two pieces) and extension bar 35-396.	35-518



Reciprocating Blades

- Bi-metal blades last up to ten times longer than carbon steel
- Flexible spring-back provides long blade life
- Super-hard, high speed steel teeth for a sharp, long-lasting cutting edge
- Shatterproof for tough applications
- Fits all reciprocating saws using 1/2 in. universal shank



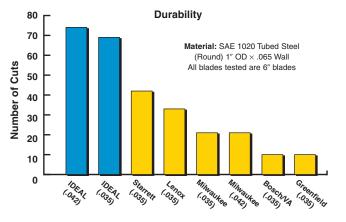
	L/W/TH (Inches)	TPI	Material	Blade Bock	Qty.	Application	Cat. No.
Metal Cutting							
**************************************	6 x 3/4 x .035	14	Bi-metal	Straight	5	Pipe, structural steel, stainless steel: 3/32" - 1/4", Non-ferrous metal: 3/32" - 3/8"	36-059
man VIVIII man-imidroidings	6 x 3/4 x .035	14	Bi-metal	Straight	25	Pipe, structural steel, stainless steel: 3/32" - 1/4", Non-ferrous metal: 3/32" - 3/8"	36-059B
Other Control of the	4 x 3/4 x .035	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: 1/16" - 3/16" thick, Non-ferrous metal: 1/16" - 5//16" thick	36-055
o mon A Part of 1122 and - 12 TH on A Part of 1127 miles of 12 TH on A Part of 12 TH on A	6 x 3/4 x .035	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: 1/16" - 3/16" thick, Non-ferrous metal: 1/16" - 5/16" thick	36-057
WALL VILLEGIS SEAS - Section - Soldings	6 x 3/4 x .035	18	Bi-metal	Straight	25	Structural steel, pipe conduit, stainless steel: 1/16" - 3/16" thick, Non-ferrous metal: 1/16" - 5/16" thick	36-057B
**************************************	8 x 3/4 x .035	18	Bi-metal	Straight	5	Structural steel, pipe, conduit, stainless steel: 1/16" - 3/16" thick, Non-ferrous metal: 1/16" - 5/16" thick	36-060
• ************************************	6 x 3/4 x .035	24	Bi-metal	Straight	5	All metal less than 1/8" thick: Tubing conduit, trim	36-058
	6 x 3/4 x .035	24	Bi-metal	Straight	25	All metal less than 1/8" thick: Tubing conduit, trim	36-058B
Heavy-Duty Metal Cutting							
o Santa A Santa Street Control - 12 FF (Control - 12 FF) (Control	6 x 3/4 x .050	18	Bi-metal	Straight	2	Heavy-duty blade for cutting structural steel, pipe, conduit, stainless steel: 1/16" to 3/16" thick	36-085
on the Control of the	8 x 3/4 x .050	10/14	Bi-metal	Straight	2	Heavy-duty blade for cutting structural steel, pipe, conduit, stainless steel: 1/8" to 1/2" thick	36-086
ners Annual Park Brief Control and Control Brief Brief Brief Control and Control Brief B	12 x 3/4 x .050	10/14	Bi-metal	Taper	5	Heavy-duty blade for cutting structural steel, pipe, conduit, stainless steel: 1/8" to 1/2" thick	36-087
Wood w/Nails							
o man block Prilliament 197	6 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-065
	6 x 3/4 x .050	6	Bi-metal	Taper	25	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-065B
O THE PROPERTY OF STATE AND A	9 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-066
17 CASA 2001 - 2 FF	12 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-067
Demolition							
The State of the S	9 x 7/8 x .062	6	Bi-metal	Taper	2	Demolition work in nail-embedded wood, remodeling	36-095
* CERS way + FI ETS W VI STS. Paragraphic - State of Figure W VI STS. Paragraphic - STS.	9 x 7/8 x .062	10	Bi-metal	Taper	2	Demolition work in wood, metal, pipe and fire and rescue	36-096
General Purpose							
O THE STATE OF THE	6 x 3/4 x .035	10	Bi-metal	Straight	5	Nail embedded wood, metal and non-ferrous metal composition materials & plastics 1/8" - 1/2"	36-075
Specialty Cutting							
Formation State Control of the Contr	8 x 3/4 x .050	Grit	Tung. Grit	Straight	2	Iron pipe, fiberglass, reinforced plastics, ceramic tile, stone, slate and brick.	36-090
_0	3 x 5/16 x .035	18	Bi-Metal	Scroll	5	Scroll cutting wood, cast aluminum and non-ferrous metals	36-054
Plaster/Drywall							
O THE CHARLES THE PROPERTY OF	6 x 3/4 x .050	6	Bi-metal	Taper	2	For plaster, drywall, plaster board & lath. Bi-directional cutting	36-088

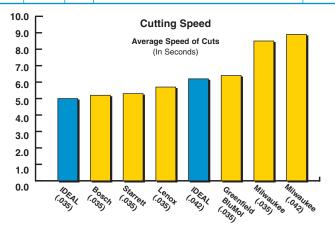
Long-Life Metal Cutting Reciprocating Blades

- Engineered to be the longest lasting, metal cutting blades available
- Long-life blades perform up to three times as many cuts as similar metal cutting blades
- 8% cobalt cutting edge for extreme durability
- Shatterproof bi-metal design
- Longer life for greater value



Long-Life Blades	L/W/TH (Inches)	TPI	Material	Blade Bock	Qty.	Application	Cat. No.
O CONTROL OF THE PARTY OF THE P	6 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/16" - 3/16" thick	36-043
*** CONTRACTOR CONTRAC	8 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/16" - 3/16" thick	36-044
** Committee Com	6 x 1 x .042	14	Bi-metal	Straight	5	Long-life blade for cutting rebar, barstock, angle iron and other heavy gauge metals: 1/8" and thicker	36-046
The second secon	12 x 1 x .050	14	Bi-metal	Straight	5	Long-life blade for cutting rebar, barstock, angle iron and other heavy gauge metals: 1/8" and thicker	36-048





Progressive Tooth Reciprocating Blades

- Specially designed for all purpose cutting
- Cut multiple materials without changing blades
- Tough bi-metal and HCS construction for long life.

Long-Life Blades	L/W/TH (Inches)	Material	Blade Bock	Qty.	Application	Cat. No.
The state of the s	6 x 3/4 x .035	Progressive	Bi-metal	5	All metal, non-ferrous metal, sheet metal, pipe and other metal materials	36-056
area of Control of Con	8 x 3/4 x .050	Progressive	Bi-metal	5	For wood, nail-embedded wood, non-ferrous metals, plastic and fiberglass	36-076

Portable Band Saw Blades

- Bi-metal construction
- Fit all standard portable band saw machines

L/W/TH (Inches)	TPI	Qty./Pack	Cat. No.
44-7/8 x 1/2 x .020	10	3	36-070
44-7/8 x 1/2 x .020	14	3	36-071
44-7/8 x 1/2 x .020	18	3	36-072
44-7/8 x 1/2 x .020	24	3	36-073

- For pipe, tubing and solids
- Cut any machinable metal, including conduit, angle iron, structurals, rebar and stainless steel tubing



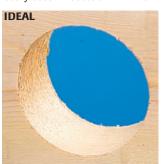


EYE Self Feed Wood Boring Bits

Introducing the new premium line of BULZ-EYE™ self-feed wood boring bits from IDEAL INDUSTRIES, INC. BULZ-EYE™ self-feed bits include a number of superior features and benefits that combine to deliver the most outstanding performance of any self-feed bit product available today. The new design features twin cutting edges and precision ground teeth with up to 50% wider cutting surface. These features deliver improved cutting speeds, better balance and control, and clean more accurate holes then the leading brand in the market. BULZ-EYE™ self-feed bits are manufactured with the best materials and machinery available to ensure quality, performance and consistency. The bits are also black oxide coated, heat treated and hardened for added durability. When it comes to quality, performance and durability, IDEAL is the professional's choice for self-feed bits.

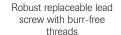
Description	Diameter	Entrance Size for Pipe & EMT	Cat. No.
1 in. Self-Feed Wood Boring Bit	1 in.	1/2 in.	36-250
1-1/8 in. Self-Feed Wood Boring Bit	1-1⁄8 in.	_	36-251
1-1/4 in. Self-Feed Wood Boring Bit	1-1/4 in.	3⁄4 in.	36-252
1-3/8 in. Self-Feed Wood Boring Bit	1-3⁄8 in.	1 in.	36-253
1-1/2 in. Self-Feed Wood Boring Bit	1-1⁄2 in.	_	36-254
1-3/4 in. Self-Feed Wood Boring Bit	1-3⁄4 in.	1-1/4 in.	36-255
2 in. Self-Feed Wood Boring Bit	2 in.	1-1/2 in.	36-256
2-1/8 in. Self-Feed Wood Boring Bit	2-1⁄8 in.	_	36-257
2-1/4 in. Self-Feed Wood Boring Bit	2-1/4 in.	_	36-258
2-9/16 in. Self-Feed Wood Boring Bit	2-9⁄16 in.	2 in.	36-259
3 in. Self-Feed Wood Boring Bit	3 in.	2-1/2 in.	36-260
3-5/8 in. Self-Feed Wood Boring Bit	3-5⁄8 in.	3 in.	36-261
4-5/8 in. Self-Feed Wood Boring Bit	4-5⁄8 in.	4 in.	36-262
5-1/2 in. Extension	Ext	_	36-273
18 in. Extension	Ext	_	36-819

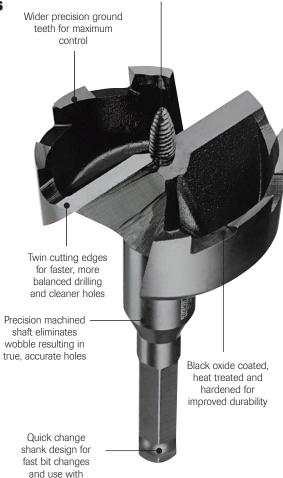
All bits are 4-5/8 in. long and come with a 7/16 in. shank designed to easily accommodate all 1/2 in. drill chucks.





Cuts a smoother, more accurate hole with less splintering than competitive bits. This decreases resistance during pipe installation and improves on-the-job productivity.







pneumatic drills

Quickly powers through wet and treated woods with no binding or jamming.

Replacement Lead Screws

- Keeps self-feed bits running fast and true
- Easily replaced with hex wrench providing extended drill life and optimum cost-per-hole value



Description	Cat. No.
3-pack small replacement lead screws, fits bit sizes 1 in 2-9/16 in.	36-271
3-pack large replacement lead screws, fits bit sizes 3 in 4-5/8 in.	36-270



Description	Cat. No.
5-1/2 in. Extension Bar	36-273
18 in. Extension Bar	35-819

Sharpening File Keeps durable bits working like new ■ High-grade sharpener hones dulled edges quickly and efficiently Description Cat. No. 36-272 Sharpening File

5-Piece Kit

Includes four different bit sizes, a 5-1/2 in. extension bar, and a convenient carrying case, giving you everything you need for drilling multiple hole sizes in any wood material.

Kit 36-265 Includes:

Description	Cat. No.
5-1/2 in. extension bar, 1-3/8 in., 1-1/2 in., 2-1/8 in., 2-9/16 in. bits	36-265

6-Piece Kit Includes five different bit sizes, a 5-1/2 in. extension bar, and a convenient carrying case, giving you everything you need for drilling multiple hole sizes in any wood material.

Kit 36-266 Includes:

Description	Cat. No.
5-1/2 in. extension bar, 1 in., 1-1/4 in., 1-3/8 in., 2 in., 2-9/16 in. bits	36-266

9-Piece Kit

Includes eight different bit sizes, a 5-1/2 in. extension bar, and a convenient carrying case, giving you everything you need for drilling multiple hole sizes in any wood material.



Kit 36-269 Includes:

value.

Description	Cat. No.
5-1/2 in. extension bar, 1 in., 1-1/8 in., 1-1/4 in., 1-3/8 in., 1-1/2 in., 1-3/4 in., 2-1/8 in., 2-9/16 in. bits	36-269





Nailbiter™ Premium Ship Auger Bits

- Dual-Helix construction with twin cutting edges provides faster and smoother drilling action, even through nail-embedded timbers
- Full body, dual induction heat treatment ensures durability, minimizes warping and delivers long lasting performance
- Heavy-duty lead screw designed for quick gripping power, superior penetration and extra-long life
- Re-sharpenable for extended

Power Ship Augers - Bit Length = 7-1/2", Twist = 5", Shank = 7/16" Description	Hole Diameter	Overall Length	Twist Length	Cat. No.
5/8 in. Power Ship Auger	5/8 in.	7-1/2 in.	5 in.	35-810
11/16 in. Power Ship Auger	11/16 in.	7-1/2 in.	5 in.	35-811
3/4 in. Power Ship Auger	3/4 in.	7-1/2 in.	5 in.	35-812
13/16 in. Power Ship Auger	13/16 in.	7-1/2 in.	5 in.	35-813
7/8 in. Power Ship Auger	7/8 in.	7-1/2 in.	5 in.	35-814
1 in. Power Ship Auger	1 in.	7-1/2 in.	5 in.	35-815
1-1/8 in. Power Ship Auger	1-1/8 in.	7-1/2 in.	5 in.	35-816
1-1/4 in. Power Ship Auger	1-1/4 in.	7-1/2 in.	5 in.	35-817
Power Ship Augers - Bit Length = 18", Twist = 15", Shank = 7/16" Description	Hole Diameter	Overall Length	Twist Length	Cat. No.
1/2 in. Power Ship Auger	1/2 in.	18 in.	15 in.	35-820
5/8 in. Power Ship Auger	5/8 in.	18 in.	15 in.	
44/40 ' D OI ' A			10 111.	35-821
11/16 in. Power Ship Auger	11/16 in.	18 in.	15 in.	35-821 35-822
3/4 in. Power Ship Auger	11/16 in. 3/4 in.	18 in. 18 in.		
	1 1		15 in.	35-822
3/4 in. Power Ship Auger	3/4 in.	18 in.	15 in. 15 in.	35-822 35-823
3/4 in. Power Ship Auger 13/16 in. Power Ship Auger	3/4 in. 13/16 in.	18 in. 18 in.	15 in. 15 in. 15 in.	35-822 35-823 35-824
3/4 in. Power Ship Auger 13/16 in. Power Ship Auger 7/8 in. Power Ship Auger	3/4 in. 13/16 in. 7/8 in.	18 in. 18 in. 18 in.	15 in. 15 in. 15 in. 15 in.	35-822 35-823 35-824 35-825
3/4 in. Power Ship Auger 13/16 in. Power Ship Auger 7/8 in. Power Ship Auger 15/16 in. Power Ship Auger	3/4 in. 13/16 in. 7/8 in. 15/16 in.	18 in. 18 in. 18 in. 18 in.	15 in. 15 in. 15 in. 15 in. 15 in.	35-822 35-823 35-824 35-825 35-826

Mini™ Utility Bit Augers

- Designed to fit between wall studs when used with common drills
- Eliminates the need for expensive right angle drills

Mini™ Augers - Bit Length = 4-3/4" Twist = 2-1/2", Shank = 7/16" Description	Hole Diameter	Overall Length	Twist Length	Cat. No.
5/8 Mini™ Auger	5/8 in.	4-3/4 in.	2-1/2 in.	35-862
3/4 Mini™ Auger	3/4 in.	4-3/4 in.	2-1/2 in.	35-864
7/8 Mini™ Auger	7/8 in.	4-3/4 in.	2-1/2 in.	35-866
1 Mini™ Auger	1 in.	4-3/4 in.	2-1/2 in.	35-868

RESI-MASTER™ Heavy-Duty Ship Augers

- 62° cutting angle reinforces the cutting edge and provides greater durability
- Hardened lead screw and cutting edge provide increased wear resistance and extended life
- Secondary relief angle evacuates wood chips quickly and prevents auger from jamming
- Oversized cutting head makes hole larger than body of bit for easy ejection from work piece

Power Ship Augers - Bit Length = 7-1/2", Twist = 5", Shank = 7/16" Description	Hole Diameter	Overall Length	Twist Length	Cat. No.
5/8 in. RESI-MASTER™ Auger	5/8 in.	7-1/2 in.	5 in.	35-892
11/16 in. RESI-MASTER™ Auger	11/16 in.	7-1/2 in.	5 in.	35-730
3/4 in. RESI-MASTER™ Auger	3/4 in.	7-1/2 in.	5 in.	35-893
13/16 in. RESI-MASTER™ Auger	13/16 in.	7-1/2 in.	5 in.	35-892
7/8 in. RESI-MASTER™Auger	7/8 in.	7-1/2 in.	5 in.	35-896
15/16 in. RESI-MASTER™ Auger	15/16 in.	7-1/2 in.	5 in.	35-897
1 in. RESI-MASTER™ Auger	1 in.	7-1/2 in.	5 in.	35-898
1-1/8 in. RESI-MASTER™ Auger	1-1/8 in.	7-1/2 in.	5 in.	35-899
1-1/4 in. RESI-MASTER™ Auger	1-1/4 in.	7-1/2 in.	5 in.	35-732
Power Ship Augers - Bit Length = 18", Twist = 15", Shank = 7/16"	Hole	Overall	Twist	Cat.
Description	Diameter	Length	Length	No.
· ·	Diameter 1/2 in.			
1/2 in. RESI-MASTER™ Auger		Length	Length	No.
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger	1/2 in.	Length 18 in.	Length 15 in.	No. 35-720 35-97
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger	1/2 in. 5/8 in.	Length 18 in. 18 in.	Length 15 in. 15 in.	No. 35-720 35-97
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger 3/4 in. RESI-MASTER™ Auger	1/2 in. 5/8 in. 11/16 in.	Length 18 in. 18 in. 18 in.	Length 15 in. 15 in. 15 in.	No. 35-720 35-97 35-72 35-97
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger 3/4 in. RESI-MASTER™ Auger 13/16 in. RESI-MASTER™ Auger	1/2 in. 5/8 in. 11/16 in. 3/4 in.	Length 18 in. 18 in. 18 in. 18 in. 18 in.	Length 15 in. 15 in. 15 in. 15 in. 15 in.	No. 35-72 35-97 35-72 35-97 35-72
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger 3/4 in. RESI-MASTER™ Auger 13/16 in. RESI-MASTER™ Auger 7/8 in. RESI-MASTER™ Auger	1/2 in. 5/8 in. 11/16 in. 3/4 in. 13/16 in.	Length 18 in. 18 in. 18 in. 18 in. 18 in. 18 in.	15 in. 15 in. 15 in. 15 in. 15 in. 15 in.	No. 35-720 35-97 35-72 35-97 35-72 35-970
1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger 3/4 in. RESI-MASTER™ Auger 13/16 in. RESI-MASTER™ Auger 7/8 in. RESI-MASTER™ Auger	1/2 in. 5/8 in. 11/16 in. 3/4 in. 13/16 in. 7/8 in.	Length 18 in.	Length 15 in.	No. 35-72 35-97 35-72 35-97 35-97 35-97
Description 1/2 in. RESI-MASTER™ Auger 5/8 in. RESI-MASTER™ Auger 11/16 in. RESI-MASTER™ Auger 3/4 in. RESI-MASTER™ Auger 13/16 in. RESI-MASTER™ Auger 7/8 in. RESI-MASTER™ Auger 15/16 in. RESI-MASTER™ Auger 1 in. RESI-MASTER™ Auger 1-1/8 in. RESI-MASTER™ Auger	1/2 in. 5/8 in. 11/16 in. 3/4 in. 13/16 in. 7/8 in.	Length 18 in.	Length 15 in.	No. 35-720

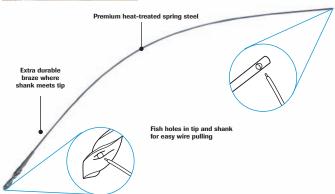
Auger Bit Extensions

*Dual locking scews	
Auger Bit Extensions, 18 in. Six flats to fit drill chuck – Allen wrench included Description	Cat. No.
Auger Bit Extension – 5/16 in.	35-818
Auger Bit Extension – 7/16 in.	35-819

Flexible Drill Bits



Professional drill bits drill and fish wire in one easy step. Drill and pull wire through blind areas in ceilings, walls and floors. Shanks are made from premium heat-treated spring steel for maximum flexibility while practically eliminating any retained shank bend. A three-flat non-slip grip on the shank and fish holes in both the tip and shank insure trouble-free wire pulling in either direction. Our tip design provides superior tip/shank contact, increasing the strength and durability of the braze and preventing separation when striking nails or other obstructions. Multiple styles are available for a variety of applications.



Screw Point Flexible Bits, Type B

- Fast and aggressive, self-starting bit
- Ultra-sharp ground threads provide increased pulling power through obstructions
- Designed for easy to tough wood drilling



Description	Shank	Cat. No.
3/8 in. x 24 in. Screw Point Flexible Bit	3/16	90-080
3/8 in. x 36 in. Screw Point Flexible Bit	3/16	90-081
3/8 in. x 54 in. Screw Point Flexible Bit	3/16	90-082
3/8 in. x 72 in. Screw Point Flexible Bit	3/16	90-083
1/2 in. x 36 in. Screw Point Flexible Bit	3/16	90-084
1/2 in. x 54 in. Screw Point Flexible Bit	3/16	90-085
1/2 in. x 72 in. Screw Point Flexible Bit	3/16	90-086
9/16 in. x 36 in. Screw Point Flexible Bit	3/16	90-087
9/16 in. x 54 in. Screw Point Flexible Bit	3/16	90-088
9/16 in. x 72 in. Screw Point Flexible Bit	3/16	90-089
3/4 in. x 36 in. Screw Point Flexible Bit	1/4	90-090
3/4 in. x 54 in. Screw Point Flexible Bit	1/4	90-091
3/4 in. x 72 in. Screw Point Flexible Bit	1/4	90-092

Flexible Bit Extensions

- Three lengths available for 3/16 in. and 1/4 in. shaft diameters
- Connect to chuck end of shaft to increase the length of the bit

Description	Shank	Cat. No.
3/16 in. x 36 in. Flexible Bit Extension	3/16	90-170
3/16 in. x 54 in. Flexible Bit Extension	3/16	90-171
1/4 in. x 36 in. Flexible Bit Extension	1/4	90-173
1/4 in. x 54 in. Flexible Bit Extension	1/4	90-174

Flexible Bit Placement Tool

- Use as a positioning guide for the flexible drill bits
- Aids in more accurate placement of bit tips within walls
- Increases directional control during drilling

Description	Cat. No.
Flexible Bit Placement Tool	90-176

Serrated Combination Flexible Bits, Type C

- Multi-purpose versatile bit for clean holes
- Designed for easy to medium wood drilling and light metal
- Pressure is needed for starting and pulling the bit through the wood

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> ,	light	WOOD META	
7	r iigiii	MEI	7

Description	Shank	Cat. No.
1/4 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-063
3/8 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-067
1/2 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-070
9/16 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-073

Masonry Flexible Bits, Type M

- Masonry drill bit
- Designed for drilling in lightweight masonry materials



Description	Shank	Cat. No.
3/8 in. x 54 in. Masonry Flexible Bit	3/16	90-124
1/2 in. x 72 in. Masonry Flexible Bit	1/4	90-128

Installer Bits

- Hole in fluted head for pulling wires through walls, ceiling and floors
- Flutes designed for quick chip removal no clogging or binding
- Premium quality, extra-hard 52-100 carbon bearing steel

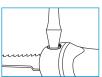
Description	Length	Cat. No.
Installer Bit – 1/4 in.	18 in.	35-870
Installer Bit – 3/8 in.	18 in.	35-871
Installer Bit – 1/2 in.	18 in.	35-872

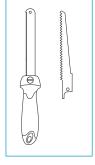


Jab Saw



- Includes replaceable bi-metal wallboard
- Holds all reciprocating blades and hacksaw blades
- Ergonomic grip





Description	Cat. No.
Jab Saw	35-275
Replacement blade	36-088

Folding Saw

- Light-weight, heavy-duty die cast construction
- Ergonomic rubber comfort grip
- Blade safely and conveniently folds down in handle
- Accepts all standard 6 in. recip blades

Description	Cat. No.
Folding Saw	35-274

Aviation Tin Snips

- Chrome-molybdenum steel forged blades for greater strength and durability
- Serrated edges provide a stable hold when cutting
- Labor-saving design for easier cutting
- Comfortable non-slip dual durometer grips

Description	Cat. No.
Straight Cut Aviation Tin Snips	35-001

Heavy-Duty Hacksaw

- Cushioned ergonomic grip for performance and comfort
- Rugged frame provides lightweight rigidity and exceptional control



Blades can be adjusted to 55° angle for flush cutting and tensioned to 30,000 psi





Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Heavy-Duty Hacksaw	35-260

Ergonomic Hacksaw

- Angled handle for easier cutting
- Blade can easily be adjusted for flush cutting
- Easy tensioning wing-nut keeps blades tight for straighter cuts
- Cushioned ergonomic grip for performance and comfort
- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Ergonomic Hacksaw	35-261

Mini Hacksaw

- Heavy-duty die cast
- Non-slip rubber comfort grip
- Accepts all standard hacksaw blades

Description	Cat. No.
Mini Hacksaw	35-259

Hacksaw Blades

■ Bi-metal blades provide strength, flexibility and longer life



	7 /	
Description	Qty./Pack	Cat. No.
12 in. x 18T Blades	10	35-271
12 in. x 24T Blades	10	35-272
12 in. x 32T Blades	10	35-273
12 in. x 18T Blades	100	35-262
12 in. x 24T Blades	100	35-263
12 in. x 32T Blades	100	35-264



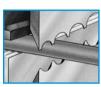


Stripmaster® and Stripmaster® Lite Wire Strippers

- One-step stripping enhances productivity
- Spring-action motion increases leverage and reduces operator fatigue
- Precision-ground, knife-type blades provide clean, accurate stripping
- Sturdy die cast frame provides long-term durability
- Wire gripper holds wire securely in position
- Stripmaster® Lite designed for smaller hands 3/4 the size of the standard Stripmaster®



Wire Stripper



Gripper holds the wire securely in position.



Knife-type stripping blades have form-ground holes which penetrate the insulation like a knife, giving a clean insulation cut

Stripmaster® Wire Strippers and Knife-Type Blades



Specifications — Stripping Hole Diameter (Inches)										Replacement				
	Wire Size AWG												Blades (Pair)	
6	8	10	12	14	16	18	20	22	24	26	28	30	Cat. No.	Cat. No.
	.159	.141	.106										45-090* or 45-290**	L-4419
		.144	.105	.085	.073	.073							45-091	L-4420
		.144	.113	.090	.072	.061	.048	.048					45-092* or 45-292**	L-4421
				.090	.072	.061	.039	.039					45-093	L-4422
.230	.198												45-096	L-4453
					.072	.061	.048	.039	.032	.026			45-097	L-4994
							.048	.039	.032	.026	.021	.016	45-098	L-5361
	.198	.167			.062	.055							45-099	L-8763

Stripmaster®

Wire Stripper

*Boxed **Blister Card Tolerances +.001 -.005

Stripmaster® Lite Wire Strippers and Knife-Type Blades

	Specifications — Stripping Hole Diameter (Inches) Wire Size AWG											Replacement Blades (Pair)		
12	14	16	18	20	22	24	26	28	30	16/18	20/22	Cutting Edge	Cat. No.	Cat. No.
		.072	.061	.048	.039								45-671	LB-1001
						.032	.026	.021	.016				45-672	LB-1002
.113	.090	.072	.061 (A	All Strande	ed wire)								45-673	LB-1003
.096	.085	.073		061 (12 8	k 14 Solid	l wire, 16	& 18 Stra	inded wire)				45-674	LB-1004
										.072	.048	.250 Wide	45-675	LB-1005

Tolerances +.001 -.005

Coax Stripmaster® Wire Strippers and Blades



Description	Coax Cable Type (RGU)	Repl. Blade Cat. No.	Cat. No.
Coax Stripmaster® for RG-6	RG-6	LB-740	45-262
Coax Stripmaster® for RG-58	RG-58	LB-742	45-264
Coax Stripmaster® for RG-59	RG-59	LB-743	45-265
Coax Stripmaster® for RG-62	RG-62	LB-744	N/A
Coax Stripmaster® for RG-6 QuadShield	RG-6 QuadShield	LA-3953	45-282

Coaxial Cables: two-step strip for termination, jacket and dielectric.

Replacement Frame Assemblies	Cat. No.
For Stripmaster® Wire Strippers	L-5620
For Stripmaster® Lite Wire Strippers	LB-1421

Stripmaster® Wire Strippers with Rectangular Holes



Description	Cat. No.	Replacement Blades (Pair) Cat. No.
For Flat Telephone Cable (.60 in. or 1.52mm)	N/A	LB-1155
For European Flat Lamp Cord	45-089	L-8762
For SP-SPT Lamp Cord	45-095*	L-4452

*Also strips 2- and 3-conductor low-voltage wire used in G.E. and Touchplate remote control wiring system.

Optional Accessories	Cat. No.
Transparent Adjustable Wire Stop (for Stripmaster® Wire Strippers)	L-5270
Transparent Adjustable Wire Stop (for Stripmaster® Lite Wire Strippers)	LB-1195
Replacement Moveable Gripper	L-1953

Stripmaster® Wire Strippers

Stripmaster® Wire Strippers and Knife-Type Blades

			Speci	fications	— Stripp	ing Hole	Diamete	r (mm)						Replacement	Replacement
						ire Size <i>l</i>								Blades (Pair)	Frame
6	8	10	12	14	16	18	20	22	24	26	28	30	Cat. No.	Cat. No.	Cat. No.
	4	3.6	2.7										45-090 or 45-290	L-4419	L-5620
		3.6	2.7	2.2	1.8								45-091	L-4420	L-5620
		3.6	2.9	2.3	1.8	1.5	1.2						45-092 or 45-292-241	L-4421	L-5620
				2.3	1.8	1.5	1.2	1					45-093	L-4422	L-5620
2.3	1.9												45-096		
					1.8	1.5	1.2	1	0.8	0.7			45-097	L-4994	L-5620
							1.2	1	0.8	0.7	0.5	0.4	45-098	L-5361	L-5620
	5	4.2			1.6	1.4							45-099	L-8763	L-5620

^{*}Boxed Tolerances +.001 -.005

Stripmaster® Lite Wire Strippers and Knife-Type Blades

	Specifications — Stripping Hole Diameter (mm)													Replacement	Replacement
					W	re Size	AWG							Blades (Pair)	Frame
12	12 14 16 18 20 22 24 26 28 30 16/18 20/22 Cutting Edge											Cat. No.	Cat. No.	Cat. No.	
		1.8	1.5	1.2	1								45-671	LB-1001	LB-1421
						0.8	0.7	0.5	0.4				45-672	LB-1002	LB-1421
2.9	2.3	1.8			1.5	(All Strai	nded wire)					45-673	LB-1003	LB-1421
2.4	2.4 2.2 1.9 1.5 (12 & 14 Solid wire, 16 & 18 Stranded wire)										45-674	LB-1004	LB-1421		
	1.8 1.2 6.4 wide										45-675	LB-1005	LB-1421		

Stripmaster® Wire Strippers and Knife-Type Blades for Metric Wire

				Specific		–Strippii re Size (Diamet	er (mm)						Replacement Blades (Pair)	Replacement Frame
0.05	0.1	0.15	0.22	0.34	0.5	0.75	1	1.5	2.5	4	6	8	10	Cat. No.	Cat. No.	Cat. No.
												4.3	5	45-090-341 or 45-290-341*	L-4419M	LA-2358
						1.3	1.6	1.9	2.4	3	3.6			45-092-341 or 45-292-341*	L-4421M	LA-2358
0.6	0.7	0.8	0.9	1	1.1									45-098-341 or 45-298-341*	L-5361M	LA-2358

^{*}Boxed Tolerances +.001 -.005

Stripmaster® Lite Wire Strippers and Knife-Type Blades for Metric Wire

		Spec			Replacement	Replacement					
0.05	Wire Size (mm²) 0.05 0.1 0.15 0.22 0.34 0.5 0.75 1 1.5									Blades (Pair) Cat. No.	Frame Cat. No.
				1	1.1	1.3	1.6	1.9	45-671-341	LB-1001M	H-2909
0.6	0.7	0.8	0.9						45-672-341	LB-1002M	H-2909

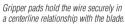
Free Application Engineering Service and made-to-order Custom Stripmaster® and Stripmaster® Wire Strippers are available. Contact IDEAL INDUSTRIES, INC. for complete information at 1-800-435-0705.



Custom Stripmaster® and Custom Stripmaster® Lite Wire Strippers

- Strips 30 through 10 AWG solid or stranded wire
- Mil-spec die-type blades allow precision stripping
- Inner cutting hole sized to conductor and counter-bored holes sized to insulation
- Replaceable Grippers
- Optional short stop latch and transparent wire stop
- Cushioned, comfort grip handles
- Custom Stripmaster® Lite is 3/4's the size of Custom Stripmaster® Wire Stripper and strips 16 through 30 AWG solid or stranded wire
- Custom Stripmaster® Lite requires one-third less hand pressure for each strip actuation
- Engineering Service and made-to-order blades available.
 Contact factory for complete product and blade number listing.







Die-type blades incorporate a counter-bored hole sized to the insulation and an inner cutting hole sized to the conductor. This varies depending on insulation type and thickness.



Custom Stripmaster® Lite Wire Stripper



Custom Stripmaster® Wire Strippers and Die-Type Blades

	Specifications — Cutting Hole Diameter (Inches)											
					Size AWG							
30	28	26	24	22	20	18	16	14	12	10	Stripper	Blade Only
For Type E	Teflon® (6	00V)									Cat. No.	Cat. No.
								<u>.076</u> .0935	<u>.096</u> .113	<u>.119</u> .136	45-176	L-5559
		<u>.023</u> .039	<u>.028</u> .043	<u>.034</u> .052	<u>.042</u> .0595	<u>.052</u> .070	<u>.061</u> .081				45-177	L-5560
<u>.016</u> .032	<u>.019</u> .035	<u>.023</u> .039									45-178	L-5561
For Type E	E Teflon® (1000V)										
								<u>.076</u> .104	<u>.096</u> .125	<u>.119</u> .144	45-173	L-5562
		<u>.023</u> .0465	<u>.028</u> .055	<u>.034</u> .0595	<u>.042</u> .067	<u>.052</u> .0785	<u>.061</u> .089				45-174	L-5563
<u>.016</u> .042	<u>.019</u> .043	<u>.023</u> .0465									45-175	L-5564
For Other	Misc. Insul	ations										
								<u>.076</u> .113	<u>.0937</u> .138	<u>.116</u> .154	45-170	L-5210
		<u>.022</u> .052	<u>.0292</u> .0595	<u>.035</u> .0635	<u>.042</u> .073	<u>.052</u> .086	<u>.062</u> .096				45-171	L-5211
<u>.016</u> .037	<u>.020</u> .040	<u>.024</u> .043									45-172	L-5436
For Wire V	Wrap & Oth	er Thin Insi	ılated Wire									
<u>.012</u> .020							Thre	e identical l	noles		45-179	L-7625
<u>.012</u> .019	<u>.014</u> .023	<u>.018</u> .025	<u>.024</u> .033					Solid Wires	1		45-169	L-9300

Tolerances: Cutter Dia.: ± .001; Counter-bore Dia.: ± .002

The 45-170 Series is a Custom Stripmaster® Wire Stripper frame without the short

stop latch and wire stop.

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

Stripmaster® Wire Strippers



Custom Stripmaster® Lite Wire Strippers and Die-type Blades

		Specificatio	ns — <u>Cutting F</u> Counterl	lole Diameter ore Diameter (Inches)				
			Wire Si	ze AWG					
30	28	26	24	22	20	18	16	Stripper	Blade Only
MIL-W-1687	8 Type E 600V 1	Teflon® Wire						Cat. No.	Cat. No.
				<u>.034</u> .052	<u>.042</u> .0595	<u>.052</u> .070	<u>.061</u> .081	45-638	LB-918
		<u>.023</u> .039	<u>.028</u> .043	<u>.034</u> .052	<u>.042</u> .0595			45-639	LB-919
<u>.016</u> .032	<u>.019</u> .035	<u>.023</u> .039	<u>.028</u> .043					45-640	LB-920
MIL-W-1687	8 Type EE 1000	V Teflon® Wire							
				<u>.034</u> .0595	<u>.042</u> .067	<u>.052</u> .0785	<u>.061</u> .089	45-635	LB-915
		<u>.023</u> .0465	<u>.028</u> .055	<u>.034</u> .0595	<u>.042</u> .067			45-636	LB-916
<u>.016</u> .042	<u>.019</u> .043	<u>.023</u> .0465	<u>.028</u> .055					45-637	LB-917
General Pur	pose								
				<u>.035</u> .0635	<u>.042</u> .073	<u>.052</u> .086	<u>.062</u> .096	45-632	LB-912
		<u>.022</u> .052	<u>.0292</u> .0595	<u>.035</u> .0635	<u>.042</u> .073			45-633	LB-913
<u>.016</u> .037	<u>.020</u> .040	<u>.024</u> .043	<u>.0292</u> .0595					45-634	LB-914
Wire Wrapp	ing (Thin Insula	tion Solid Wire)					'	
<u>.012</u> .020			<u> </u>		Fou	ır holes, same s	size	45-641	LB-921
<u>.012</u> .019	<u>.014</u> .023	<u>.018</u> .025	<u>.024</u> .033			Solid Wires		45-631	LB-911

Tolerances: Cutter Dia.: ± .001; Counterbore Dia.: ± .002. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

Custom Strinmaster® Wire Strinners and Die-Tyne Rlades

			Specification	cuttin	g Hole Dian	neter (Milli	meters) (R	eference char	t only Blade:	s are not mark	red in mm)	
		,	opcomodito.	'S Count	erbore Diar m² Nom	neter \"""	inotoro) (re	010101100 01101	t offig. Diado.	aro not man	iod III IIIII)	
0.05	0.08	0.13	0.2	0.22	0.5	1.0	1.5	2.5	4.0	6.0		
	Teflon® (6		0.2	0.22	0.0	1.0	1.0	2.0	7.0	0.0	Stripper Cat. No.	Blade Only Cat. No.
								1.93 2.37	<u>2.44</u> 2.87	3.02 3.45	45-176	L-5559
		<u>.584</u> .99	<u>.711</u> 1.09	<u>.863</u> 1.32	<u>1.07</u> 1.5	<u>1.33</u> 1.78	<u>1.55</u> 2.06				45-177	L-5560
<u>.406</u> .813	<u>.482</u> .889	<u>.584</u> .99									45-178	L-5561
or Type E	E Teflon® (1000V)										
								1.93 2.64	2.44 3.17	3.02 3.6	45-173	L-5562
		<u>.584</u> 1.17	<u>.711</u> 1.39	<u>.863</u> 1.5	1.07 1.70	1.33 1.99	<u>1.55</u> 2.49				45-174	L-5563
<u>.406</u> 1.07	<u>.482</u> 1.09	<u>.584</u> 1.17									45-175	L-5564
or Other	Misc. Insul	ations										
								1.93 2.87	2.38 3.45	2.94 3.91	45-170	L-5210
		<u>.560</u> 1.33	<u>.736</u> 1.5	<u>.889</u> 1.61	<u>1.07</u> 1.85	<u>1.33</u> 2.18	<u>1.57</u> 2.44				45-171	L-5211
<u>.406</u> .940	<u>.508</u> 1.01	<u>.609</u> 1.09									45-172	L-5436
or Wire \	Wrap & Oth	er Thin Ins	ulated Wire									
<u>.305</u> .508							Thre	e identical	holes		45-179	L-7625
<u>.305</u> .482	<u>.356</u> .584	<u>.457</u> .635	<u>.609</u> .838								45-169	L-9300

Tolerances: Cutter Dia.: ± .025mm; Counterbore Dia.: ± .051mm. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.



Custom Stripmaster® Lite Wire Strippers and Die-type Blades

		Specification		lole Diameter ore Diameter (ze AWG	Millimeters)				
1,5	1,0	0.5	0.22	0,2	0,13	0.08	0.05	01.1	District.
	B Type E 600V	<u> </u>	-,		2,12		, ,,,,	Stripper Cat. No.	Blade Only Cat. No.
<u>1,55</u> 2,06	<u>1,32</u> 1,99	<u>1,07</u> 1,51	<u>0,86</u> 1,32					45-638	LB-918
		<u>1,07</u> 1,51	<u>0,86</u> 1,32	<u>0,71</u> 1,09	<u>0,58</u> ,099			45-639	LB-919
				<u>0,71</u> 1,09	<u>0,58</u> 0,99	<u>0,48</u> 0,89	<u>0,41</u> 0,82	45-640	LB-920
MIL-W-16878	B Type EE 1000	V Teflon® Wire							
<u>1,55</u> 2,26	<u>1,32</u> 1,99	<u>1,07</u> 1,70	<u>0,86</u> 1,51					45-635	LB-915
		<u>1,07</u> 1,70	<u>0,86</u> 1,51	<u>0,71</u> 1,40	<u>0,58</u> 1,18			45-636	LB-916
				<u>0,71</u> 1,40	<u>0,58</u> 1,18	<u>0,48</u> 1,09	<u>0,41</u> 1,07	45-637	LB-917
General Purp	ose								
<u>1,57</u> 2,44	<u>1,32</u> 2,18	<u>1,07</u> 1,85	<u>0,89</u> 1,61					45-632	LB-912
		<u>1,07</u> 1,85	<u>0,89</u> 1,61	<u>0,74</u> 1,51	<u>0,56</u> 1,32			45-633	LB-913
				<u>0,74</u> 1,51	<u>0,61</u> 1,09	<u>0,51</u> 1,02	<u>0,41</u> 0,86	45-634	LB-914
Wire Wrappi	ng (Thin Insula	tion Solid Wire	e)						
		Fou	ır holes, same	size			<u>0,30</u> 0,76	45-641	LB-921
			Solid Wires	<u>0,61</u> 0,84	0,46 0,64	<u>0,36</u> 0,58	<u>0,30</u> 0,48	45-631	LB-911

Tolerances: Cutter Dia.: ± .001; Counterbore Dia.: ± .002. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

Stripmaster® Wire Strippers



Short-stop Latch protects wire strands by limiting the stripping stroke to 5/32 in. and retains the slug until the wire is ready for terminating.

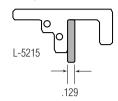


Transparent wire stop provides uniform stripping length.

Gripper Pads are available in your choice of either parallel, file or grit-type. File-type pads may be used on hard-to-grip insulations such as Kapton® and some Teflon®.

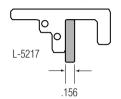
Stationary Gripper for Red **Handle Units**

For 10, 12 & 14 AWG Wire



Stationary Gripper for Black **Handle Units**

For 16 thru 30 AWG wire.



Replacement Gripper Pads

For Custom Stripmaster® and Custom Steel Stripmaster® Wire Strippers								
Surface Type	Gripper Set* Cat. No.	Movable Gripper Cat No.	Stationary Gripper (Thickness)					
Grit**	LB-197	L-5212	L-5215 (.129 in.)					
Grit**	LB-198†	L-5212	L-5217 (.156 in.)					
File	LB-721	LB-718	LB-719 (.129 in.)					
File	LB-722‡	LB-718	LB-720 (.156 in.)					
Parallel	LB-730	LB-727	LB-728 (.129 in.)					
Parallel	LB-731	LB-727	LB-729 (.156 in.)					

For Custom Stripmaster® Lite Wire Strippers									
Surface Type	Gripper Set* Cat No.	Movable Gripper Cat. No.	Stationary Gripper (Thickness)						
Grit*	LB-1188	LB-882	LB-883 (.109 in.)						
File	LB-1189	LB-1184	LB-1185 (.109 in.)						
Parallel	LB-1190	LB-1186	LB-1187 (.109 in.)						

Replacement Frame Assemblies

1	
For Custom Stripmaster® Wire Strippers	Cat. No.
Frame only, 10-14 AWG	L-5616
Frame only, 16-30 AWG	L-5617
Frame only, 10-14 AWG, Wire Stop and Latch	L-5618
Frame only, 16-30 AWG, Wire Stop and Latch	L-5619
Frame only, 10-14 AWG, internal spring (see note)	L-9039
Frame only, 16-30 AWG, internal spring (see note)	L-9038

Note: Frames with internal springs allow additional blade penetration pressure for difficult and multi-layered insulation types.

For Custom Stripmaster® Lite Wire Strippers	Cat. No.
Frame only	LB-895
Frame only, Wire Stop and Latch	LB-896

For Custom Steel Stripmaster® Wire Strippers	Cat. No.
Frame only, 10-14 AWG	LB-1091
Frame only, 16-30 AWG	LB-1092
Frame only, 10-14 AWG, internal spring (see note)	LB-1090
Frame only, 16-30 AWG, internal spring (see note)	LB-1089

Note: Frames with internal springs allow additional blade penetration pressure for difficult and multi-layered insulation types.

Optional Accessories

Short Stop Latch	Cat. No.
For Custom & Custom Steel Stripmaster® Wire Strippers	L-5269
For Custom Stripmaster® Lite Wire Strippers	LB-1194

Transparent Adjustable Wire Stop Assembly	Cat. No.
For Custom & Custom Steel Stripmaster® Wire Strippers	L-5270
For Custom Stripmaster® Lite Wire Strippers	LB-1195

Custom Steel Stripmaster® Wire Strippers and Special Flat-Blades for Ribbon and Multi-Conductor Cable

Description	Blade Gap ("x") vertical height	Blade Only Cat. No.	Frame & Blade Cat. No.
Custom Steel frame only	N/A	N/A	LB-1091
Flat blade for 26 AWG (.40mm dia.) multi-conductor	.022 in.	LB-1151	45-890
Flat blade for 24 AWG (.00mm dia.) multi-conductor	.030 in.	LB-1152	45-891
Flat blade for 22 AWG (.64mm dia.) multi-conductor	.038 in.	LB-1153	45-892
Flat blade for 20 AWG (.00mm dia.) multi-conductor	.050 in.	LB-1154	45-893
Flat blade for 18 AWG (1.02mm dia.) multi-conductor	.060 in.	LB-1155	45-894
Flat blade for 16 AWG (1.29mm dia.) multi-conductor	.075 in.	LB-1156	45-895

Teflon® and Kapton® are registered trademarks of E. I. du Pont de Nemours and Company.

^{*} Gripper Set includes one movable gripper, one stationary gripper.

** Grit pads are standard for most Custom Stripmaster® and Custom Stripmaster® Lite

Formerly L-7954

[‡] Formerly L-8928. These are for use on hard-to-grip surfaces such as Kapton® and Teflon®.

Gripper pad selection depends on insulation type and user preference.

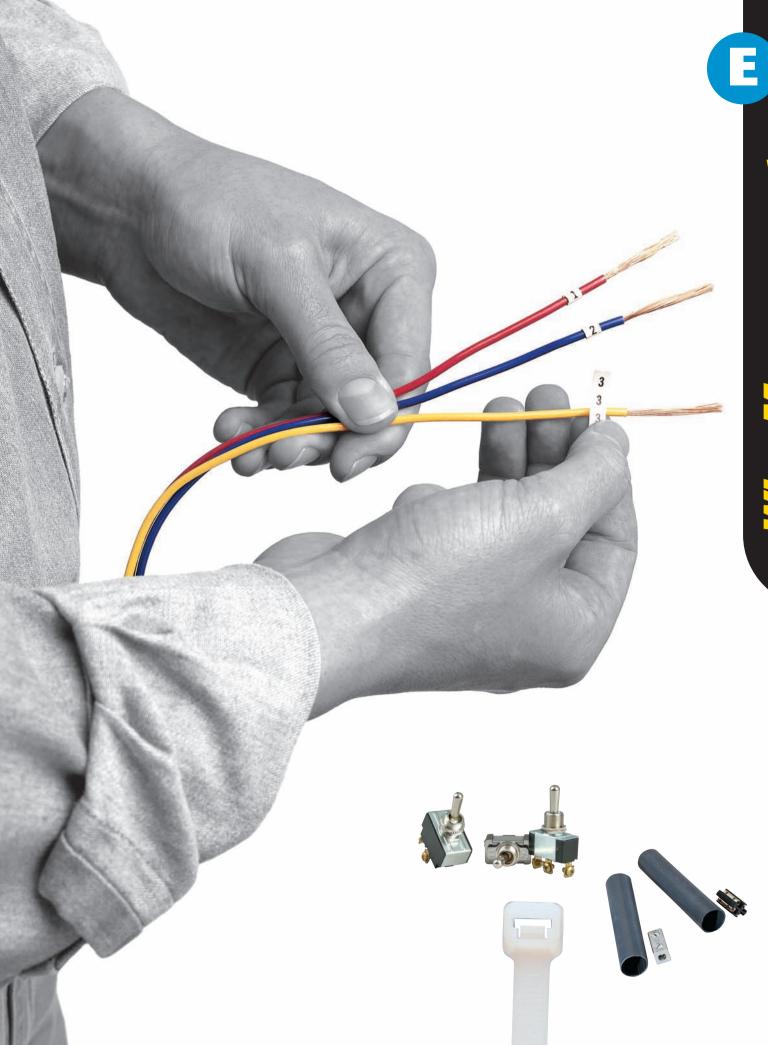
Note: For wire gauge 10-14, use .129 in. stationary gripper. For 16-30 AWG, use .156 in.



Custom Stripmaster® Wire Stripper and Custom Stripmaster® Lite Wire Stripper MIL-spec reference chart

		Custom Stripmaster®			Custom Stripmaster® Li			
Wire Specification	Cat. No.	Blade Only Cat. No.	Wire Gauge	Cat. No.	Blade Only Cat. No.	Wire Gauge		
MIL-W-81044/4/5/6 MIL-W-5086/1/7	45-170 45-171	L-5210 L-5211	10-14 AWG 16-26 AWG	N/A	N/A	N/A		
MIL-W-81044/8/9/10 MIL-W-16878/5 MIL-W-81381/3/4	45-173 45-174 45-175	L-5562 L-5563 L-5564	10-14 AWG 16-26 AWG 26-30 AWG	45-635 45-637 45-637	LB-915 LB-917 LB-917	16-22 AWG 24-30 AWG 24-30 AWG		
MIL-W-22759/32/33/44/45/46	45-1987 45-1654	45-1987-1 45-1654-1	16-26 AWG 16-26 AWG	45-2133 45-2132	45-2133-1 45-2132-1	16-24 AWG 16-24 AWG		
MIL-81044/11/12/13 MIL-W-22759/34/35/41/42/43	45-1611 45-2500 45-1987 45-178	45-1611-1 45-2500-1 45-1987-1 L-5561	10-14 AWG 10-14 AWG 16-26 AWG 26-30 AWG	45-2133 45-2118 45-640	45-2133-1 45-2118-1 LB-920	16-24 AWG 20-26 AWG 24-30 AWG		
Raychem 44A021X, 44/051X MIL-W-16878/4 MIL-W-22759/11/12/22/23	45-176 45-1611 45-177 45-178	L-5559 45-1611-1 L-5560 L-5561	10-14 AWG 10-14 AWG 16-26 AWG 26-30 AWG	45-640	LB-920	24-30 AWG		
MIL-W-81044/16/17	45-1611 45-1610	45-1611-1 45-1610-1	10-14 AWG 16-26 AWG	45-2131	45-2131-1	16-24 AWG		
MIL-W-81381/1/2//6/7/8/9/10/17/21	45-1609 45-1551 45-178	45-1609-1 45-1551-1 L-5561	10-14 AWG 16-26 AWG 26-30 AWG	45-640	LB-920	24-30 AWG		
MIL-W-81381/11/12/13/14/22	45-1608 45-1654 45-178	45-1608-1 45-1654-1 L-5561	10-14 AWG 16-26 AWG 26-30 AWG	45-640	I B-920	24-30 AWG		
MIL-W-22759/18/19	45-1608 45-1551	45-1608-1 45-1551-1	10-14 AWG 16-26 AWG	N/A	N/A	N/A		
MIL-W-81381/17/21	45-1633	45-1633-1	16-26 AWG	45-2020	45-2020-1	20-26 AWG		
MIL-W-81381/18/19/20	45-1609 45-1551	45-1609-1 45-1551-1	10-14 AWG 16-26 AWG	N/A	N/A	N/A		
MIL-W-22759/16/17	45-1611 45-1987	45-1611-1 45-1987-1	10-14 AWG 16-26 AWG	45-2133 45-2118	45-2133-1 45-2118-1	16-24 AWG 22-26 AWG		
/IIL-W-24640/19/22/23/24	45-1957	45-1957-1	14-22 AWG	N/A	N/A	N/A		
/IIL-W-85485/5/6/7/8	45-1925 45-1924	45-1925-1 45-1924-1	10-14 AWG 16-24 AWG	N/A	N/A	N/A		
ЛIL-W-85485/9/10/11/12 ЛIL-W-85485/9/10	45-1611 45-1610	45-1611-1 45-1610-1	10-14 AWG 16-24 AWG	45-2131	45-2131-1	16-24 AWG		
BMS 1360 Type 1-6, 19-21, 23-27, 33-34	45-2541 42-2543	45-2541-1 45-2543-1	10-14 AWG 16-24 AWG	45-2697	45-2697-1	16-24 AWG		
BMS 1360 Type 12-18, 28-32	45-2542 45-2544	45-2542-1 45-2544-1	10-14 AWG 16-24 AWG	N/A	N/A	N/A		
BMS 1360 Type 7-12	45-2565 45-2564	45-2565-1 45-2564-1	10-14 AWG 16-26 AWG	N/A	N/A	N/A		
MIL-W-22759/80/81/82/91/92	45-2542 45-2544	45-2542-1 45-2544-1	10-14 AWG 16-24 AWG	45-2693 45-2692	45-2693-1 45-2692-1	16-22 AWG 20-26 AWG		
MIL-W-22759/83/84/85/86/87/88/89/90	45-2541 45-2543 45-2618	45-2541-1 45-2543-1 45-2618-1	10-14 AWG 16-24 AWG 16-26 AWG	45-2685	45-2685-1	16-24 AWG		

NOTE: The above blades represent the best blade for nominal conductor sizes within the wire spec. tolerance. If the conductor size is over or under the nominal dims. an alternate blade may be required. Please contact our wire stripping applications engineer at 1-800-435-0705 ext. 300 for alternate blades and for blade numbers for MIL-specs. not listed on this chart.





IDEAL Cable Tie Catalog Numbering System

<u>IT - 2 - S - MH - C - 0</u>

		/			
IT	2	S	MH	C	0
IT = IDEAL Powr-Tie™ Cable Ties	Size Approximate Bundle Diameter for ties	TENSILE Strength M = Miniature (18 lbs.) I = Intermediate (40 lbs.) S = Standard (50 lbs.) LH = Light-Heavy Duty (120 lbs.) H = Heavy Duty (175 lbs.) EH = Extra-Heavy Duty (250 lbs.)	Style Standard Tie Standard Tie MH = Mounting ID = Identification MB = Mounting Base LPMB = Low Profile Mounting Base MP = Mounting Pad CCL = Cable Clamp	Qty. Per Package L = 50 C = 100 D = 500 M = 1000	Color = Natural 0 = UV Black 8 = Gray 30 = Heat Stabilized Black 35 = Maroon 702 = Halar

Cable Tie Bag

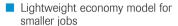


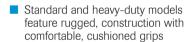
- Keep your cable ties right where you need them, eliminate loss with this convenient easy-to-use bag that clips securely onto your belt
- Includes a bag for 8 in. cable ties and a bag for 11 in. cable ties, they easily clip together or can be used separately
- Elastic cord guickly and easily cinches to keep ties securely in place

Description	Cat. No.
Cable Tie Bag	IT-BAG

Cable-Tie Installation Tool

- Consistent, positive tension
- Flush cut-off leaves no projections to damage nearby wires or components







Description	Cat. No.
Economy – use w/intermediate & standard ties*	BCTT-200
Standard – use w/intermediate & standard ties**	41-990
Heavy-Duty – use w/standard & heavy-duty ties**	41-995

^{*}Color may vary

Cable Tie Assortment with Cable Tie Bag

- 500 of the most popular sized cable ties packaged with an easy-to-use bag that clips securely onto your belt
- UL Listed Nylon 6/6 cable ties are suitable for use in Air Handling Spaces (Plenums) in accordance with Section 300-22(C) & (D) of the National Electrical Code and Rules 12-010 (3), (4) & (5) and 12-020 of the Canadian Electrical Code, Part 1.

Description	Cat. No.		
Cable Tie Assortment		IT-COMBO	
IT-COMBO Includes:	Qty.	Cat. No.	
7-1/2 in. Natural Air Handling Cable Ties	300	IT2S-C	
11 in. Natural Air Handling Cable Ties	200	IT3S-C	
Cable Tie Bag	1	IT-BAG	



^{**}Not Shown

Wire Management

Plenum Ties

Halar® Ties

- For use in air handling/plenum environments
- Easily recognized maroon color
- Low smoke density and excellent flammability rating, non-flammable UL 94V-O
- Superior chemical resistance
- 300°F temperature use

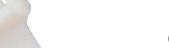


Approximate dimensions.

Halar® is a trademark of Ausimont Chemical Co.

UL Listed for Air Handling Ties - Plenum

■ UL Listed nylon 6/6 cable ties are suitable for use in Air Handling Spaces (Plenum) in accordance with Section 300-22(C) & (D) of the National Electrical Code and Rules 12-010 (3), (4) and (5) and 12-020 of the Canadian Electrical Code, Part 1







Standard Ties

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.			
Burgandy Nylon						100	IT2S-C35				
Natural Nylon				1/16 - 1-7/8 in.			100	IT2S-C			
Natural Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm		50 lbs.	MS3367-1-9	1000	IT2S-M			
UV Black Nylon						MS3367-1-0	100	IT2S-C0			
UV Black Nylon							1000	IT2S-M0			
Burgandy Nylon		lon								100	IT3S-C35
Natural Nylon						M00007 7 0	100	IT3S-C			
Natural Nylon		11.2 in./284mm	.178 in./4.52mm	m .053 in./1.34mm	1/16 - 3-1/16 in.	50 lbs.	MS3367-7-9	500	IT3S-D		
UV Black Nylon						MC00C7 7 0	100	IT3S-C0			
UV Black Nylon				MS3367-7-0	500	IT3S-D0					
Natural Nylon						MC00C7 0 0	100	IT4S-C			
Natural Nylon	445: /000	470: (450	050: 4.04	440 440	50 !!	MS3367-2-9	500	IT4S-D			
UV Black Nylon	- 14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8 in.	50 lbs.	MC00C7 0 0	100	IT4S-C0			
UV Black Nylon						MS3367-2-0	500	IT4S-D0			

Mounting Ties

Description	Length	Width	Strap Thickness	Max. Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.				
Natural Nylon											100	IT2SMH-C
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	1000	IT2SMH-M				
UV Black Nylon							100	IT2SMH-C0				

Definition of "Air Handling Spaces"

Air Handling Spaces - Ducts or plenums used for environmental air and other spaces used for environmental air, such as above hung ceilings or below raised floors. This does not include plenums used for the removal of dust, loose stock or vapor, or ventilation of commercial-type cooking

¹UL 1565 CSA C22.2 4th Edition



Powr-Tie[™] Cable Ties

Quality Construction

- One-piece design for added strength
- Superior locking mechanism
- Exceeds industry tensile strength ratings

Low Insertion Force

- Tapered thin tip reduces initial friction
- Lowest insertion force with the highest tensile strength
- Reduces installation fatigue

No Burrs or Sharp Edges

- Smooth corners provide added safety
- Rounded edges eliminate insulation damage

Stepped Tail Gripper

- Tapered tail grip assures positive threading
- Stepped tail allows for easier grabbing and tightening once engaged









Angled Tail

- Provides quicker initial insertion
- Lowers installation costs

Material Selection

- **ROHS Compliant**
- Natural General Purpose 6/6 Nylon
 - Suitable for most applications
 - Meets UL 94V-2 flammability ratings
 - 85°C/185°F working temperature

■ UV Black Nylon 6/6

- Suitable for most applications with continuous or extended exposure to outdoor elements
- Weather-resistant grade, able to endure ultraviolet (UV) light
- Meets UL 94V-2 flammability ratings
- 85°C/185°F working temperature

■ Heat Stabilized Black Nylon 6/6

- Suitable for most applications with continuous or extended exposure to high temperatures
- Meets UL standards for electrical applications
- Meets UL 94V-2 flammability ratings
- 125°C/254°F working temperature

Miniature (18 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 7/8 in.	18 lbs.	MS3367-4-9	100	IT1M-C
Natural Nylon							1000	IT1M-M
UV Black Nylon						MS3367-4-0	100	IT1M-C0
Natural Nylon	6.1 in./154mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 1-1/2 in.	18 lbs.	_	100	IT1_5M-C
UV Black Nylon							100	IT1_5M-C0
Natural Nylon	8.1 in./206mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 2-3/16 in.	18 lbs.	_	100	IT2M-C
Natural Nylon							1000	IT2M-M
UV Black Nylon							100	IT2M-C0

^{*}IM, 1_5M & 2M Series



Intermediate (40 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon		.140 in./3.56mm	.049 in./1.24mm	1/16 - 1-7/16 in.	40 lbs.	MS3367-5-9	100	IT1_5I-C
Natural Nylon	5.7 in./145mm						1000	IT1_5I-M
UV Black Nylon	0.7 111./ 1 10111111					MS3367-5-0	100	IT1_5I-C0
UV Black Nylon							1000	IT1_5I-M0
Natural Nylon		.140 in./3.56mm	.049 in./1.24mm	1/16 - 2-3/8 in.	40 lbs.	MS53367-5-9	100	IT2I-C
Natural Nylon	0.0 in /004mm						1000	IT2I-M
UV Black Nylon	8.8 in./224mm					MS53367-5-0	100	IT2I-C0
UV Black Nylon							1000	IT2I-M0
Natural Nylon	11.5 in./292mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 3-3/8 in.	40 lbs.		100	IT3I-C
UV Black Nylon	11.5 111./252111111						100	IT3I-C0
Natural Nylon	14.5 in./368mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 4 in.	40 lbs.	_	100	IT4I-C
UV Black Nylon	14.5 111./500111111						100	IT4I-C0

^{*1}_5 & 2I Series



Standard (50 lb.) Ties Natural, UV Black & Heat Stabilized Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon						MC22C7 1 0	100	IT2S-C
Natural Nylon				1/16 - 1-7/8 in.		MS3367-1-9	1000	IT2S-M
UV Black Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm 1/16 - 1		50 lbs.	MS3367-1-0	100	IT2S-C0
UV Black Nylon							1000	IT2S-M0
Heat Stabilized Black Nylon						_	100	IT2S-C30
Natural Nylon			1400007.7.0	100	IT3S-C			
Natural Nylon	11 0 :- /004	170 in /4 50mm	050 :- /4 04	/1.34mm 1/16 - 3-1/16 in.	EO Ibo	MS3367-7-9	500	IT3S-D
UV Black Nylon	11.2 in./284mm	.178 in./4.52mm	.033 111./ 1.34111111		50 lbs.	MC0007 7 0	100	IT3S-C0
UV Black Nylon						MS3367-7-0	500	IT3S-D0
Natural Nylon						1400007.0.0	100	IT4S-C
Natural Nylon	445: /000	470 : /4 50	050: 404	4/40 44/0:	50 !!	MS3367-2-9	500	IT4S-D
UV Black Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8 in.	50 lbs.	MC00C7 0 0	100	IT4S-C0
UV Black Nylon						MS3367-2-0	500	IT4S-D0
Natural Nylon	47.0 : //00		050: 44.04	1/16 - 4-3/4 in.	50.11		100	IT5S-C
UV Black Nylon	17.0 in./432mm	. 190 III./4.82MM	190 in./4.82mm .053 in./1.34mm		50 lbs.	_	100	IT5S-CO

*2S, 3S & 4S Series

UL Listed Nylon 6/6 cable ties are suitable for use in Air Handling Spaces (Plenums) in accordance with Section 300-22(C) & (D) of the National Electrical Code and Rules 12-010 (3), (4) & (5) and 12-020 of the Canadian Electrical Code, Part 1.





Light Heavy-Duty, Heavy-Duty & Extra Heavy-Duty Ties Natural, UV Black & Heat Stabilized Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	8.7/220.9mm	.300 in./7.62mm	.076 in./1.93mm	2-1/16 in.	120 lbs.		100	IT2LH-C
UV Black Nylon	0.7/220.911111	.300 111./1 .02111111	.070 111./ 1.93111111	2-1/10 111.	120 105.	_	100	IT2LH-C0
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	3/16-4-1/16 in.	120 lbs.	MS3367-3-9	50	IT4LH-L
UV Black Nylon	15.1 111./50411111	.300 111./1 .02111111	.075 111./ 1.90111111	3/10-4-1/10 111.	120 105.	MS3367-3-0	50	IT4LH-L0
Natural Nylon	17.8 in./451mm	.300 in./7.62mm	.075 in./1.90mm	3/16-5-1/4 in.	120 lbs.		50	IT5LH-L
UV Black Nylon	17.0 111./45 1111111	.300 111./1 .02111111	.075 111./ 1.90111111	3/10-3-1/4 111.	120 105.	_	50	IT5LH-L0
Natural Nylon	24.2 in./614mm	.300 in./7.62mm	.075 in./1.90mm	3/16-7 in.	120 lbs.		50	IT7LH-L
UV Black Nylon	24.2 111./014111111	.300 111./1 .02111111	.075 111./1.90111111	3/10-7 111.	120 IDS.	_	50	IT7LH-L0
Natural Nylon	25.3 in./642mm	.340 in./8.64mm	.090 in./2.29mm	3/16-7-3/16 in.	17E lbo	MS3367-10-9	50	IT7H-L
UV Black Nylon	20.3 111./042111111	.340 111./0.04111111	.090 111./2.29111111	3/10-7-3/10 111.	3/16 in. 175 lbs.	MS3367-10-0	50	IT7H-L0
Natural Nylon	33.1 in./841mm	.340 in./8.64mm	.090 in./2.29mm	3/16-9-3/4 in.	175 lbs.	MS3367-12-9	50	IT10H-L
UV Black Nylon	33.1 111./04 1111111	.340 111./0.04111111	.090 111./2.29111111	3/10-9-3/4 111.	175 105.	MS3367-12-0	50	IT10H-L0
Natural Nylon	37.1 in./942mm	.340 in./8.64mm	.090 in./2.29mm	3/16-11 in.	175 lbs.	MS3367-13-9	50	IT11H-L
UV Black Nylon	37.1 111./94211111	.340 111./0.04111111	.090 111./2.29111111	3/10-11 111.	175 105.	MS3367-13-0	50	IT11H-L0
Natural Nylon						MS3367-16-9	50	IT14H-L
Gray Nylon	47.8 in./1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2 in.	175 lbs.	MS3367-16-8	50	IT14H-L8
UV Black Nylon						MS3367-16-0	50	IT14H-L0
UV Black Nylon	22.8 in./579mm	.50 in./12.7mm	.080 in./2.03mm	3/16-6 in.	250 lbs.		100	IT6EH-C0

*4LH, 7H, 10H, 11H, 14H Series







Mounting Head Ties Natural and UV Black

- Secures and positions wire bundles, cables, hoses, etc. to panels or other surfaces with one fastener to reduce time and cost
- Allows bundling before and after mounting



Description	Length	Width	Strap Thickness	Max. Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	6.0 in./152mm	.140 in./3.55mm	.048 in./1.21mm	1/16 - 1-1/4 in.	30 lbs.	No. 8	100	IT1_5IMH-C
UV Black Nylon	0.0 111./ 132111111			1,10 1 1,1111.	50 IDS.	NO. O	100	IT1_5IMH-C0
Natural Nylon							100	IT2SMH-C
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	1000	IT2SMH-M
UV Black Nylon							100	IT2SMH-C0
Natural Nylon	11.8 in./300mm	.189 in./4.80mm	.050 in./1.27mm	1/16 - 3 in.	50 lbs.	No. 10	100	IT3SMH-C
UV Black Nylon	11.0 111./300111111	. 103 111./4.00111111	.030 111./ 1.27111111			NO. TO	100	IT3SMH-C0
Natural Nylon	14.5 in./370mm	.189 in./4.80mm	.060 in./1.52mm	1/16 - 4 in.	50 lbs.	No. 10	100	IT4SMH-C
Natural Nylon	15.7 in./398mm	.300 in./7.62mm	.075 in./1.90mm	3/16 - 4-1/16 in.	120 lbs.	1/4 in.	100	IT4LHMH-C
UV Black Nylon	13.7 111./330111111	.000 111./1.02111111	.07 0 111./ 1.30111111	3/ 10 - 4 -1/10 III.	120 103.	1/4 111.	100	IT4LHMH-C0

^{*4}LH Series: **2S Series



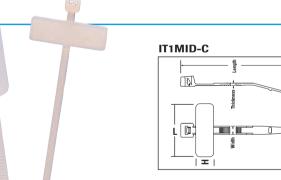


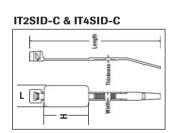




Identification Ties

- Write-on surface
- Bundle and identify at the same time

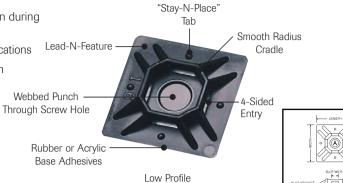




Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Pad Size (H X L)	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.100 in./2.54mm	.044 in./1.12mm	1/16 - 7/8 in.	18 lbs.	5/16 in. x 1 in.	100	IT1MID-C
Natural Nylon	7.8 in./200mm	.181 in./4.59mm	.055 in./1.40mm	1/16 - 1-7/8 in.	50 lbs.	1-1/8 in. x 1/2 in.	100	IT2SID-C
Natural Nylon	14.1 in./358mm	.187 in./4.75mm	.055 in./1.40mm	3/8 - 4 in.	50 lbs.	1-1/8 in. x 1/2 in.	100	IT4SID-C

Mounting Pads

- Patented stay-in-place tab keeps cable ties from sliding down during vertical applications
- Lead-N-Feature allows easy insertion for hard to reach applications
- Four-sided entry slots save time during placement orientation
- Smooth radius cradle eliminates possible damage to cable while providing stable support
- Webbed punch through screw hole allows maximum adhesive surface area, along with easy insertion of mechanical fasteners
- Low Profile is essential in confined spaces
- UL recognized, rubber adhesive positioning device



Description	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.								
Natural Nylon	74: 40	40: 40	.05 in./1.2mm	05: 40	05: 40	05: 40	05: 40	05: 40	05: 40	05: 40	05: 40	00: /5.4	N. 4	100	IT750MP-C
UV Black Nylon	.74 in./19mm	.19 in./4.8mm		.20 in./5.1mm	No. 4	100	IT750MP-C0								
Natural Nylon	00: /05	201 /25		00: 05	0. 105	No. 6	100	IT1000MP-C							
UV Black Nylon	.99 in./25mm	.20 in./5.0mm	.06 in./1.5mm	.20 in./5.1mm	100		IT1000MP-C0								





Screw Mounting Bases - Standard

- Deep cradle design provides minimum support for larger bundles and tubing
- Recessed screw hole allows cable ties to easily pass over screw head

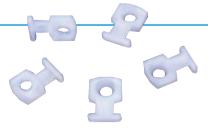


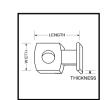


Description	Length	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.													
Screw Mount Natural Nylon	F00: 4F	070: /0.40	070: 10.00	.062 in./1.59mm	000: 450	000: 4.50	000: 450	000: 4 50	000: 450	000: 450	000: 450	000: 450	000: 450	000:- /4 50	000:- /4 50	060 in /1 E0mm	000: 450 400: 4400	- 100 :- /4 00	N. O	100	IT1SMB-C
Screw Mount UV Black Nylon	.590 in./15mm	.370 in./9.40mm	.270 in./6.86mm		.190 in./4.83mm	No. 6	100	IT1SMB-C0													
Screw Mount Natural Nylon	070: /00	040: 40.00	000: 10.05	105 : /0.10	000: /7.00	474	100	IT2SMB-C													
Screw Mount UV Black Nylon	.870 in./22mm	.640 in./16.26mm	.380 in./9.65mm	.125 in./3.18mm	.300 in./7.62mm	1/4 in.	100	IT2SMB-C0													

Screw Mounting Bases - Low Profile

Perfect for confined space, control panels or other areas where space is limited





Description	Length	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Low Profile Mount	.750 in./19mm	.500 in./12.70mm	.120 in./3.04mm	.062 in./1.57mm	.180 in./4.57mm	No. 8	100	IT1LPMB-C



Material Specifications

Nvlon 6/6 - General Purpose

General purpose nylon 6/6 features lightweight, high-strength and a wide-temperature range. Even at higher than recommended temperatures or exposure to flame, nylon does not give off toxic or irritating by-products. Nylon 6/6 is hydroscopic and, therefore, absorbs or releases moisture depending on its environment. Moisture level of the material will affect tensile strength, stiffness and elongation of the product.

Nylon 6/6 - UV Stabilized

General purpose nylon 6/6 with increased resistance to ultraviolet light. Carbon black is one of the most effective stabilizers known today. A uniform dispersion of carbon black provides good ultraviolet light resistance without adversely affecting physical properties. The addition of carbon black, or any other ultraviolet light stabilizer, prolongs the useful life of plastic products used outdoors, but it does not totally eliminate the destructive effects of the light.

	Continuous Operating Temp.		Tensile AT 73F	UL Flame	Radiation	UV
Material	Max.	Min.	ASTM D-638	Rating	Resistance	Resistance
Nylon 6/6 – General Purpose	185° F 85° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Poor
Nylon 6/6 – UV Stabilized	185° F 85° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Very Good
Nylon 6/6 – Heat Stabilized	220° F 105° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Very Good
Halar®	284° F 140° C	-50° F -46 °F	7,500	94V-0	1 X 10 Rads	Excellent

Halar[®]

Although weaker than general-purpose nylon 6/6 (about 37%). Halar is resistant to a wide range of chemicals such as concentrated hydrofluoric and sulfuric acids. It is radiation resistant. Halar also withstands high temperatures, ultraviolet light exposure and meets U.L. flammability requirement 94V-O. Its outstanding characteristic is a lower smoke density when burned. This makes Halar more desirable for use in areas where smoke generation is a concern.

Nylon 6/6 - Heat Stabilizer

Used for continuous or extended exposure to high temperatures (up to 250°F). They contain specially formulated heat stabilizers to provide additional thermal endurance to prevent reduction in physical properties and fatigue as a result of high temperatures. Heat stabilized nylon meets the UL standard for electrical applications.

Military Cross Reference

Current MIL Std. Part Number*	Cable Tie Part Number				
MS3367-1-*	IT2S-*				
MS3367-2-*	IT4S-*				
MS3367-3-*	IT4LH-*				
MS3367-4-*	IT1M-*				
MS3367-5-*	IT1.5I-*				
MS3367-5-*	IT2I-*				
MS3367-7-*	IT3S-*				
MS3367-10-*	IT7H-*				
MS3367-13-*	IT11H-*				
MS3367-16-*	IT14H-*				

^{*}Color and package denotation

Material Suitability Chart (10 = most suitable, 1 = least suitable)

Design Criteria	Weather Natural 6.6 Nylon	Heat Stabilized Resistant 6.6 Nylon	Black 6.6 Nylon	Halar®
Part # Suffix Material Designation		-0	-30	-702
Loop Tensile Strength	7	7	7	5
Low Temperature Service	6	6	6	7
High Temperature Service	5	5	6	7
Flammability	6	6	6	9
Ultraviolet Resistance	1	6	4	9
Radiation Resistance	3	3	3	9
Overall Chemical Resistance - Hydrocarbons - Chlorinated Hydrocarbons - Acids - Bases - Salts	6 9 7 2 7 3	6 9 7 2 7 3	6 9 7 2 7 3	10 10 10 10 10 10
Relative Price	Low	Low	Low	High

^{*}Halar® is a trademark of Ausimont Chemical Co.

Clamps

- Use to secure wires, cables, pipes, tubing and fiber optics
- Ultraviolet black nylon clamps available for internal and external use
- Use with #10 mounting screw



Description	Closed Diameter	Center to Center	Width	Thickness	Mounting Hole	Qty./Bag	Cat. No.
Natural Nylon	.125 in./3.18mm	.343 in./8.71mm	3/8 in.	.050 in./1.27mm	.203 in./5.16mm	100	IT125CCL-C
Natural Nylon	.250 in./6.35mm	.421 in./10.69mm	3/8 in.	.050 in./1.27mm	.203 in./5.16mm	100	IT250CCL-C
UV Black Nylon	.200 111.70.00111111	. 121 111./ 10.00111111	0/0 111.		.200 111.70.10111111	100	IT250CCL-C0
Natural Nylon	.375 in./9.52mm	.500 in./12.70mm	1/2 in.	.060 in./1.52mm	nm .203 in./5.16mm	100	IT375CCL2-C
UV Black Nylon	.070 111.70.02111111	.000 111.7 12.7 0111111				100	IT375CCL2-C0
Natural Nylon	.500 in./12.70mm	.553 in./14.05mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT500CCL2-C
Natural Nylon	.625 in./15.88mm	.625 in./15.88mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT625CCL2-C
Natural Nylon	.750 in./19.05mm	.699 in./17.75mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT750CCL2-C
Natural Nylon	1.000 in./25.40mm	.825 in./20.96mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT1000CCL2-C

Flange-Type Plastic Anchors



- Multi-purpose use in solid materials or hollow walls, will not fall
- For use with sheet-metal or wood screws
- High-impact plastic construction resists moisture, corrosion and deterioration

Description	Screw Size	Drill Size (In.)	Quantity	Cat. No.
Yellow – 7/8 in. long	6-8-10	3/16	100	90-041
Red – 1 in. long	10-12	1/4	100	90-042
White — 1-1/2 in. long	14-16	5/16	50	90-044

Flange-Type Plastic Anchor Kits



- Kits include flange-type anchors, slotted/Phillips head screws and masonry bit
- Convenient plastic storage container

Contents	Cat. No.
100 #6-8-10 x 7/8 in. Flange-type anchors, 100 #8 x 1 in. combo- head, sheet-metal screws & 1-3/16 in. masonry bit (carbide-tipped)	90-051
100 #10-12 x 1 in. Flange-type anchors, 100 #10 x 1-1/4 in. combo- combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-052
100 #10-12 x 1 in. Flange-type anchors, 100 #12 x 1 in. combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-053
40 #14-16 x 1-1/2 in. Flange-type anchors, 40 #14 x 1-1/2 in. combohead, sheet-metal screws 1-5/16 in. masonry bit (carbide-tipped)	90-054
100 #10-12 x 1 in. Flange-type anchors, 100 #10 x 1 in. combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-055

Flexible Tubing*

- Flexible polyethylene cuts easily to desired length
- Splits open for neat "bundling" of wiring jobs
- Snaps shut to create a continuous protective cover

Description	Qty.	Cat. No.
3/8 in. Flexible Tubing	10 ft.	772240
3/8 in. Flexible Tubing	1,200 ft.	772245
1/2 in. Flexible Tubing	1 ft.	772241
1/2 in. Flexible Tubing	900 ft.	772244
1 in. Flexible Tubing	5 ft.	772242
1 in. Flexible Tubing	250 ft.	772243







Cable Staples

- Full line of quality insulated and non-insulated staples to fit all cabling applications
- Packaged to answer electrician's need for clean, dry, rust-free staples
- Convenient reclosable containers keep staples organized in the truck and on the job-site



- Use with wider cable such as Romex®, NM and UF
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion

Description	Qty./Package	Cat. No.
	50/Bag	BPS2-50
	100/Bag	BPS2-1
1/2 in. Insulated	225/Jar	BPS2-JRL
,, <u> </u>	400/Jar	BPS2B-JR
	500/Bag	BPS2-5
	5,000/Bucket	BPS2-5M
	30,000/Barrel	BPS2-30K
3/4 in. Insulated	50/Bag	BPS3-50
	100/Bag	BPS3-1
	200/Jar	BPS3-JRL
	250/Bag	BPS3-2

Romex® is a registered trademark of General Cable Co.

Carbon Steel Staples

- Use with wider cable such as Romex®. NM and UF
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion

Description	Qty./Package	Cat. No.
	100/Box	BCS1-1
1/2 in. x 1 in.	500/Jar	BCS1-JR
, , _ , , , , , , , , , , , , , , , , ,	500/Box	BCS1-5
	5,000/Bucket	BCS1-5M
9/16 in. x 1-1/4 in.	100/Box	BCS2-1
	400/Jar	BCS2-JR
	500/Box	BCS2-5
	5,000/Bucket	BCS2-5M

Romex® is a registered trademark of General Cable Co.





Plastic Insulated Cable Stacker

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel construction
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Qty./Package	Cat. No.
1/2 in. 2 Cable Stacker	50/Bag	BPS2/2-50
1/2 in. 3 Cable Stacker	50/Bag	BPS2/3-50
1/2 in. 4 Cable Stacker	50/Bag	BPS2/4-50

Romex® is a registered trademark of General Cable Co.

Cable Stacker

- Perfect for centering multiple cables on 2 x 4 framing members in compliance with NEC 300.4.(2)
- Use with cable such Romex®, NM and UF



Description	Qty./Package	Cat. No.
Cable Stacker	15	BPSTCKR-15

Romex® is a registered trademark of General Cable Co.

Insulated Staples

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel with flexible PVC insulation
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion

Description	Qty./Package	Cat. No.
1/2 in. x 1 in.	125	BICS1-125
9/16 in. x 1-1/4 in.	125	BICS2-125

Romex® is a registered trademark of General Cable Co.

Coaxial Cable Straps

- Use with round cable such as CATV/VCR, RG-5, RG-6 and phone cables or with plastic and metal tubing
- damage to cable

Roofing

Masonry

Standard

Standard



25/Clamshell

200/Jar

25/Clamshell

200/Jar

200/Jar

50/Bag

Plastic Insulated Service Entrance Straps

- Use with service entrance cable and conduit
- Smooth plastic saddle prevents damage to cable

1/4 in. Black

Double 1/4" Black

7/16 in. White

Zinc-plated nails resist rust and corrosion



772891

BPCSRB-JR

772890

BPCXMBJR

BPDCXSBJR

BPS4-50

Description	Qty./Package	Cat. No.
#6 SER & 1/2 in. EMT	50/Bag	BSER6-50
#6 & #8 SEU	50/Bag	BSEU6-50
#2 SER & 3/4 in. EMT	25/Bag	BSER2-25
#2 SEU	25/Bag	BSEU2-25
4/0 SER	5/Bag	BSER4/0-5
4/0 SEU	5/Bag	BSEU4/0-5

Data Cable Staples

- Secures Category 3, 5 and other 4-pair twisted wire
- Blue plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Nail Type	Qty./Package	Cat. No.
	Standard	25/Clamshell	772880
Data Staple	Standard	250/Jar	BPDATAS-JR
	Masonry	250/Clamshell	772881

Sound Straps

- Use with smaller insulated wire and cord applications such as lamps, thermostats, telephones and sound systems
- Smooth plastic saddle prevents damage to wires
- Zinc-plated nails resist rust and corrosion

Description	Nail Type	Qty./Package	Cat. No.
		25/Clamshell	772804
3/16 in. White	Standard	100/Clamshell	772805
		250/Jar	BPLVSW-JR
3/16 in. Black Standard	Standard	25/Clamshell	772810
	250/Jar	BPLVSB-JR	
3/16 in. Tan	Standard	25/Clamshell	772881
3/16 in. White	Masonry	25/Clamshell	772813

Carbon Steel Service Entrance Staples

- Use with service entrance cable and conduit
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion



Description	Qty./Package	Cat. No.
1-5/16 in. x 3/4 in.	100/Box	BMSE150-1
1-1/2 in. x 1-1/16 in.	100/Box	BMSE175-1



Heat Shrinkable Tubing

Thermo-Shrink® **UF Splice Kits**



■ 14/3 with and without ground thru 8/3 without ground, UF cable range

Stretcher kit repairs a 7 in. to 10 in. section damaged or destroyed by a trencher

■ 600V Maximum, 105°C rating

Meets the requirements of the 2002 NEC Code 110-14(b) and UL486D



Description	Cat. No.
UF Splice Kit - 14-8 AWG, Tubing 1.1 in. x 8 in.	46-400
UF Stretcher Kit* - 14-8 AWG, Tubing 1.1 in. x 18 in.	46-410

^{*}Stretcher kit connector is 11.5 in.

Thermo-Shrink® Al/Cu Splice Kits

- Direct burial rated, underground splice kits
- Heavy-wall heat shrink tubing with adhesive liner provides complete insulation and protection
- Connector can be used for aluminum and/or copper cable
- Meets the requirements of the 2005 NEC Code 110-14(B)
- 600V maximum, 105°C rating

Description	Cat. No.
Underground Splice Kit – 8 to 2 AWG, Tubing 3/4 in. x 6 in.	46-401
Underground Splice Kit – 4 AWG to 1/0, Tubing 1.1 in. x 8 in.	46-402
Underground Splice Kit – 1/0 to 250 KCMIL, Tubing 1-1/2 in. x 12 in.	46-403

Thermo-Shrink® Copper Butt Splice Kits

- UL Listed
- Provides a fully-insulated butt splice
- 600V Maximum, 105°C rating



Description	Cat. No.
Butt Splice Kit – Copper 14-8 AWG	46-404
Butt Splice Kit – Copper 8-2 AWG	46-405

Thermo-Shrink® Self-Sealing **UF Splice Kit**

Fully waterproof, submersible and re-enterable to make future changes or repairs



Accommodates 14 to 10 AWG wire range

600V Maximum, 105°C rating

Description	Cat. No.
Self Sealing UF Splice Kit	46-411

Thermo-Shrink® Torch

- Self-igniting trigger, starts fast and easy
- Fully adjustable regulator valve and air inlet port to achieve the ideal flame setting
- 1 in. wide brass burn-tip accommodates a variety of heat shrink applications
- Heavy duty, stainless steel burn tube, combined with a cast aluminum body with epoxy finish, creates a durable long lasting tool for almost any environment
- 1 20 threads screw directly onto 14 oz. and 16 oz. propane gas tanks

Description	Cat. No.
Heat Shrink Torch	46-420



Thermo-Shrink® Thin-Wall **Heat Shrinkable Tubing**

- Polyolefin material electrically insulates and protects in-line components, disconnect terminals and splices with its high strength and excellent resilience
- Use to bundle wires for very flexible light-duty harnesses
- Highly flame-retardant and flexible
- Resistant to common fluids and solvents
- Meets UL 224 125°C VW-1 600V
- Material: No PBB's, PBBE's, conforms to ROHS
- 2:1 shrink ratio
- Minimum shrink temperature: 70°C
- Operating temperature: -55°C to +125°C



Technical Data		
Property	Test Method	Typical Data
Tensile strength	ASTM D 638	14MPa
Elongation at break	ASTM D 638	600%
Elongation after aging at 175°C for 168 hours	UL 224	350%
Flammability	UL 224 VW-1	Pass
Heat shock (250°C/4 hours)	UL 224	No cracking
Cold bend test (-55°C/4 hours)	UL 224	No cracking
Dielectric strength	ASTM D 150	20KV/mm
Volume resistance	ASTM D 876	10¹⁴Ω.cm
Copper corrosion	UL 224	Pass
Chemical resistance	UL 224	Pass
Longitudinal shrinkage	UL 224	0±5%
Eccentricity	UL 224	30%

Normal Size (In.)	Expanded I.D. (Min.)	Nominal Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Range*	Length	Pkg. Type	Cat. No.
3/64	0.063"/1.6mm	0.024"/0.6mm	0.013"/0.33mm	22-18 AWG	4 ft.	Disk	46-600
1/16	0.079"/2.0mm	0.031"/0.8mm	0.014"/0.36mm	16 AWG	4 ft.	Disk	46-601
3/32	0.122"/3.1mm	0.047"/1.2mm	0.017"/0.44mm	14-12 AWG	4 ft.	Disk	46-602
1/8	0.146"/3.7mm	0.063"/1.6mm	0.017"/0.44mm	24-20 AWG	6 in. 4 ft. 1,000 ft.	Bag Disk Spool	46-310 46-603 46-312
3/16	0.205"/5.2mm	0.094"/2.4mm	0.020"/0.50mm	20-14 AWG	6 in. 4 ft. 1,000 ft.	Bag Disk Spool	46-313 46-604 46-315
1/4	0.268"/6.8mm	0.126"/3.2mm	0.022"/0.56mm	14-8 AWG	6 in. 4 ft. 500 ft.	Bag Disk Spool	46-316 46-605 46-318
5/16	0.346"/8.8mm	0.157"/4.0mm	0.022"/0.56 mm	10-6 AWG	4 ft.	Disk	46-606
3/8	0.421"/10.7mm	0.185"/4.7mm	0.022"/0.56mm	8-4 AWG	6 in. 4 ft. 200 ft.	Bag Disk Spool	46-319 46-607 46-321
1/2	0.539"/13.7mm	0.252"/6.4mm	0.026"/0.65mm	4-1 AWG	6 in. 4 ft. 200 ft.	Bag Disk Spool	46-322 46-608 46-324
3/4	0.807"/20.5mm	0.374"/9.5mm	0.027"/0.69mm	2-250 MCM	6 in. 4 ft. 200 ft.	Bag Disk Spool	46-325 46-609 46-327
1	1.043"/26.5mm	0.500"/12.7mm	0.031"/0.80mm	2/0-500 MCM	6 in. 4 ft. 100 ft.	Bag Disk Spool	46-328 46-610 46-330

*Reference only - Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.





Thermo-Shrink® Heavy-Wall Heat Shrinkable Tubing

- TS-46 irradiated cross-linked polyolefin with 3:1 standard shrink ratio
- Adhesive liner provides complete insulation and protection to electrical splices in above-grade, underground or underwater applications
- Maximum flame retardancy
- Meets UL 486D, CSA C22.2 No. 198.2, ANSI C119.1, Western Underground Guides Nos. 2.4, 2.5, MIL-DTL-23053/15, IEEE 383 Vertical Flame Test, ANSI C37.20.2, ICEA S-19-8 and NEMA insulation thickness requirements
- Continuous operating temperature from -55°C to 110°C
- Rated for 600V, 90°C continuous use
- Shrink temperature of 120°C

Model	Expanded I.D. (Min.) (In.)	Recovered I.D. (Max.) (In.)	Nominal Recovered Wall Thickness (In.)	Cable Range*	Length (In.)	Cat. No.
TS-46-400	.400	.150	.060	12-6 AWG	6 9 48	46-343 46-344 46-346
TS-46-750	.750	.240	.090	8-1/0 AWG	6 9 48	46-347 46-348 46-350
TS-46-1100	1.100	.350	.120	2-4/0 AWG	6 9 48	46-351 46-352 46-354
TS-46-1500	1.500	.470	.160	3/0 AWG- 400 KCMIL	9 12 48	46-356 46-357 46-358
TS-46-2000	2.000	.630	.160	250- 750 KCMIL	9 18 48	46-369 46-371 46-372





Properties	Heavy Wall
Shrink Temperatures	120°C to 250°C (200°C recommended)
Continuous Operating Temperature	-55°C to 110°C
Tensile Strength (PSI)	2,100 PSI min.
Ultimate Elongation	600% min.
Secant Modulus @ 2% Strain	25,000 PSI max.
Specific Gravity	1.20 max.
Heat Aging, 168 hrs. @ 175°C Tensile Strength Elongation	500%
Heat Shock, 4 hrs. @ 225°C	No cracks, flowing or dripping
Flammability	Self-extinguishing
Low Temperature Brittle Point	-55°C
Volume Resistivity	10 ¹³ ohm-cm min.
Dielectric Strength	500V/mil (20kV/min.)
Corrosive Effect	Non-corrosive
Solvent Resistance 24 hrs. Immersion per MIL-DTL-23053	Good to excellent
Water Absorption	0.5%
Fungus Resistance	No growth
Longitudinal Change, 3 min.	+1%/-10%

All values are typical performance data and are not to be used as design data.





Thermo-Shrink® Medium-Wall Heat Shrinkable End Caps

- Creates a watertight seal to protect the ends of power and control cords
- Effectively offers protection against oxidation, ozone, UV radiation, etc.
- Coated with hot melt adhesive to ensure environment seal
- Fits easily over end of cable
- Protect power cables up to 1000V and telecommunication cable
- Recommended for both open air and underground power distribution cables with PVC. lead or XLPE sheaths
- Thermally stabilized cross-linked polylelin, coated with specially designed hot melt adhesive

Technical Data		
Property	Test Method	Typical Data
Operating Temperature	IEC 216	-55°CC to +110°C
Tensile Strength	ASTM D 638	>14 MPa
Elongation at break	ASTM D 638	>400%
Density	ASTM D 792	1.05g/cm³
Elongation of break after aging	150°C, 168 hrs.	>300%
Dielectric Strength	IEC 243	>15KV/mm
Volume Resistance	IEC 93	10¹⁴Ω.cm

Expanded I.D. (Min.)	Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Dia. Range*	Length (ln.)	Cat. No.
0.55"/14mm	0.18"/4.5mm	0.079"/2.0mm	0.20"/5mm - 0.47"/12mm	1.77/ 45mm	46-381
0.98"/25mm	0.31"/8mm	0.091"/2.3mm	0.39"/10mm - 0.71"/18mm	2.76/ 70mm	46-382
1.38"/35mm	0.59"/15mm	0.118"/3.0mm	0.67"/17mm - 1.18"/30mm	3.35/ 85mm	46-383
2.95"/75mm	1.38"/35mm	0.138"/3.5mm	1.77"/45mm - 2.76"/70mm	5.12/ 130mm	46-384
4.72"/120mm	2.36"/60mm	0.157"/4.0mm	2.95"/75mm - 4.33"/110mm	6.10/ 155mm	46-387

^{*}Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.

Thermo-Shrink® **Heat Shrink Kit**

Kit includes:

- Heat Elite Pro Heat Gun
- Eleven sizes of thin-wall heat shrinkable tubing disks (3/64 in. - 1 in.)
- Small deflector
- Premium T®-Cutter Wire Cutter



Heat Elite Heat Gun Kit

- Temperature range 930°F (500°C)
- Two-step switch for heat and air flow adjustments
- Double-insulated power cord
- Ergonomical distribution of
- Comfortable non-slip handle for ease of use

Description	Cat. No.
Heat Elite Kit - Includes #46-202 Heat Gun, #46-941 Small Deflector, and #46-954 Wide-Slot Adapter	46-202



Heat Elite Pro Heat Gun Kit

- Temperature range 180°F - 1020°F (100 - 550°C)
- Two-step switch for heat and air flow adjustments
- Double-insulated power cord
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- Potentiometer for infinitely temperature adjustment

Description	Cat. No.
Heat Elite Pro Kit - Includes #46-203 Heat Gun, #46-941 Small Deflector, #46-950 Reduction Adapter and #46-954 Wide-Slot Adapter	46-203



Heat Elite Plus LCD Heat Gun Kit

- Temperature range 180°F - 1200°F (80 - 650°C)
- Double-insulated power
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- LCD display with memory functions
- Temperature and airflow adjustments
- Stand-by mode to minimize the energy consumption
- Ceramic heating element ensures long-term coil performance

Description		Cat. No.
Heat Elite Plus LCD Kit - Includes : Deflector, #46-952 Welding Adapter, #46-955 Overlap Welding Adapter,	r, #46-953 Solder Reflector Adapter,	46-204



Heat Gun Accessories



Description	Cat. No.
Small Deflector, 1-1/4 in. diameter (For use with all Heat Elite Heat Guns)	46-941
Reduction Adapter (For use with 46-203 and 46-204)	46-950
Glass Protection Adapter (For use with all Heat Elite Heat Guns)	46-951
Welding Adapter (For use with 46-203 and 46-204)	46-952
Solder Reflector Adapter (For use with 46-204)	46-953
Wide-Slot Adapter (For use with all Heat Elite Heat Guns)	46-954
Overlap Adapter (For use with 46-203 and 46-204)	46-955
Pressure Roller (For use with 46-204)	46-956



Wire Marker Booklets



- Convenient pocket-size booklets
- Plastic-impregnated cloth construction for long-lasting durability
- Resists abrasion, moisture, dirt and oil
- Perforated 1/4 in. x 1-1/2 in. markers can be separated into half-length sizes
- Non-smear black legend ensures high visibility
- Self-sticking on wire and cable
- For applications above or below ground

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C) Adhesion: 45 oz./in. width ultimate

Load Centers

Contains common household legends - bedroom, living room, dryer, water heater, security system, etc.



Legend Assortments*

Legend	Qty.	Cat. No.
0-9	45 Markers each	44-101
A-Z 0-15 +, -, /	10 Markers each	44-102
1-45	10 Markers each	44-103
46-90	10 Markers each	44-104
1, 2, 3	150 Markers each	44-105
A, B, C	150 Markers each	44-106
A-Z**	45 Markers each	44-148
T1, T2, T3	150 Markers each	44-107
L1, L2, L3	150 Markers each	44-108
1-15 16-90 A-Z +,, /, 0	6 Markers each 4 Markers each 2 Markers each 2 Markers each	44-109
1, 2, 3 A, B, C T1, T2, T3 L1, L2, L3	45 Markers each 45 Markers each 30 Markers each 30 Markers each	44-110
+, -, AC, DC POS, NEG, GND NEUT SPARE, BLANK	45 Markers each 33 Markers each 27 Markers each 21 Markers each	44-111

^{*}Ten pages per booklet with each page bearing the legend assortment indicated. All booklets (except 44-111) contain 450 wire markers and 450 terminal markers. Booklet 44-111 includes 348 wire markers and 348 terminal markers.

Write-On Marker Booklets*

- Use for developing personal identification systems
- Surface accepts pen, pencil or rubber stamp

Marker Size* (In.)	Markers per page	Pages per book	Cat. No.
1 x 2-1/2	6	10	44-151
1 x 5	3	10	44-152

*Write-on area for 2-1/2 in. markers is 3/4 in. x 1 in. Write-on area for 5 in. markers is 1 in. x 1 in. Adhesion: .25 oz./in. width ultimate

^{**}Booklet 44-148 contains 26 pages, one page of 45 markers per letter, 1170 total markers.

Write-On Marker Cards

- Use for developing personal identification systems
- Cloth write-on surface
- Accepts most writing instruments



Marker Size (In.)	Markers per card	Cat. No.
5/8 x 1-1/2	14	44-753



- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates
- Color-coded in red or black

Description	Cat. No.
Marking Pen w/black ink	41-697
Marking Pen w/red ink	41-698

Wire Marker Dispenser



- Convenient pocket-size case holds 10 wire marker rolls
- Dispenser tab holds tapes firmly in place allows removal of proper tape length without waste
- Flip top for easy access and refill
- Built-in hook for hanging from belt or tool pouch
- High-quality adhesive and 3 mil. thickness provide long-lasting, low-profile application
- Each plastic reel holds Tyvek® tape

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C) Adhesion: 25 oz./in. width ultimate

Description	Cat. No.
Dispenser w/O through 9 legend rolls	42-301
Refill pack with 1 each of 0-9 legend rolls	42-399

Wire Marker Cards

- Use for positive identification and keying of wires, terminal blocks, etc.
- Convenient pocket-size cards
- Bold, easy-to-read black characters
- Self-sticking on wire and cable
- Polyester film over laminate/cloth construction for long-term durability
- Resists abrasion, moisture, dirt and oil
- Individual markers measure approximately 1/4 in. x 1-1/2 in.

Temperature Range: -40°F to 180°F (-40°C to 82°C); Adhesion: 45 oz./in. width ultimate

Legend	Markers per legend	Markers per card	Cat. No.
0-9 (Repeated)	3	30	43-953





Standard and Heavy-Duty Toggle Switches

- Great for power tool and motor control switch applications
- Rugged long-wearing solid brass/nickel-plated bushings
- 1/2 in. diameter mounting hole
- Dielectric Strength: 1500V
- Mechanical Life: 100,000 cycles
- Operating Temperature: 32°F to 185°F (0°C to 85°C)
- DC Rating: Factory tested 100,000 cycles to 21 Amp 14.8 VDC
- Bulk packaging of 100 available upon request





				-			Rating		Diameter.		
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Amps 125 VAC	Amps 277 VAC	HP 125-250 VAC	Dimensions (L" × W" × H")	Cat. No.	
	Toggle Switch with On-Off		On-OFf	Screw						774011 774011BK†	
	Faceplate	ODOT	OII OI I	Spade	0	00	40	0/4	110 57 01	774008 774008BK†	
		SPST	On-Off	"O" Ring & Screw	2	20	10	3/4	1.13 x .57 x .61	774010	
	T l. O . l. l		(On)-Off	Screw						774093	
	Toggle Switch		On-(Off)	Screw						774088	
			011 (011)	OGIGW						774088BK†	
3	Toggle Switch w/boot	Toggle Switch w/boot SPST	On-Off	Wire leads	2	20	20	1-1/2	1.18 × .68 × .75	774111	
				w/boot	W/DOOt	W/D00Ĭ					
	Toggle Switch	SPDT	On-On	Screw	3	20	10	3/4	1.13 × .57 × .61	774012	
a	Toggle Switch	SPDT	On-On	Spade	3	20	10	3/4	1.13 × .57 × .61	774100	
	Toggle Switch	SPDT	On-Off-On	Screw	3	20	10	3/4	1.13 × .57 × .61	774013 774013BK†	
	Toggle Switch	SPDT	On-Off-On	Spade	3	20	10	3/4	1.13 × .57 × .61	774027	
() ()	Toggle Switch	SPDT	On-Off-(On)	Screw	3	20	10	3/4	1.13 × .57 × .61	774094	
	Toggle Switch	SPDT	(On)-Off-(On)	Screw	3	20	10	3/4	1.13 × .57 × .61	774009	
	Heavy-Duty Toggle Switch	DPST	On-Off	Screw	4	20	10	1-1/2	1.30 x .76 × .80	774014 774014BK†	
	Heavy-Duty Toggle Switch	DPST	On-Off	Spade	4	20	10	1-1/2	1.30 × .76 × .80	774005 774005BK†	
0405	Heavy-Duty Toggle Switch	DPST	(On)-Off	Screw	4	20	10	1-1/2	1.30 × .76 × .80	774103	
(3) Jan	Heavy-Duty Toggle Switch	DPST	On-(Off)	Screw	4	20	10	1-1/2	$1.30 \times .76 \times .80$	774105	

() denotes momentary action

Standard and Heavy-Duty Toggle Switches

							Rating		Diameters.	
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Amps 125 VAC	Amps 277 VAC	HP 125-250 VAC	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Heavy-Duty Toggle Switch	DPDT	On-On	Screw	6	20	10	1-1/2	1.30 × .76 × .80	774015
	Ticavy-buty Toggic Switch	וטוטו	OII-OII	OGIGW	U	20	10	1-1/2	1.50 × .70 × .00	774015BK†
	Heavy-Duty Toggle Switch	DPDT	On-On	Spade	6	20	10	1-1/2	1.30 × .76 × .80	774091
	Trouvy Buty roggio Switch	DIDI	011 011	Ориио	J	20	10	1 1/2	1.00 × .70 × .00	774091BK†
	Heavy-Duty Toggle Switch	DPDT	(On)-On	Screw	6	20	10	1-1/2	1.30 × .76 × .80	774028
11			(5.1) 5.1		-			,=		774028BK†
Carel	Heavy-Duty Toggle Switch	DPDT	On-Off-On	Screw	6	20	10	1-1/2	1.30 × .76 × .80	774016
										774016BK†
	Heavy-Duty Toggle Switch	DPDT	On-Off-On	Spade	6	20	10	1-1/2	1.30 × .76 × .80	774003
										774003BK†
	Heavy-Duty Toggle Switch	DPDT	(On)-Off-On	Screw	6	20	10	1-1/2	$1.30 \times .76 \times .80$	774104
	Heavy-Duty Toggle Switch	DPDT	(On)-Off-(On)	Screw	6	20	10	1-1/2	$1.30 \times .76 \times .80$	774000
	Heavy-Duty Toggle Switch	DPDT	(On)-Off-(On)	Spade	6	20	10	1-1/2	1.30 × .76 × .80	774115
			(0.1) 0.1 (0.1)	-	-	_,		,=		774115BK†
	Toggle Switch	3PST	On-Off	Screw	6	15	10*	3/4	1.31 × 1.09 × .80	774106
1	Toggle Switch	3PDT	On-On	Screw	9	15	10*	3/4	1.31 × 1.09 × .80	774089
			J		_			5, 1		774089BK†
Para Marie	Toggle Switch	3PDT	On-Off-On	Screw	9	15	10*	3/4	$1.31 \times 1.09 \times .80$	774092
	Toggle Switch	4PST	On-Off	Screw	8	15	10*	3/4	1.31 × 1.44 × .80	774108
A	Toggle Switch	4PDT	On-On	Screw	12	15	10*	3/4	1.31 × 1.44 × .80	774109
	Toggle Switch	4PDT	On-Off-On	Screw	12	15	10*	3/4	1.31 × 1.44 × .80	774110

^{*250}VAC, Dielectric strength: 1000V () denotes momentary action

†Bulk Package of 100



Medium and Light-Duty Toggle Switches

- Great for household appliances and equipment
- Bat toggle switch, 774007, is ideal for battery-powered equipment including trimmers and lawn mowers
- Wire leads are #18 AWG, 6 in. stripped wire
- 1/2 in. diameter mounting hole
- Bulk packaging available upon request



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Bat Toggle with On-Off Faceplate	SPST	On-Off	Screw 2 6 Amps 120 VAC, 3 Amps 240 VAC		.69 × .55 × .34	774017 774017BK†	
	Bat Toggle with On-Off Faceplate	SPST	On-Off	Wire Leads	2	4 Amps 250VAC/DC, 8 Amps 125VAC/DC, 10 Amps 125 VAC, ¼ HP 125 VAC	.98 × .64 × .62	774018
6	Bat Toggle*	SPST	On-Term Ground	Spade	1	21 Amps 14 VDC	.69 × .55 × .34	774007
	Short Ball Toggle Switch	SPST	On-Off	Screw	2	6 Amps 120 VAC, 3 Amps 240 VAC	.69 × .55 × .34	774001
	Short Ball Toggle Switch	SPST	On-Off	Wire Leads	2	6 Amps 125 VAC, 3 Amps 250 VAC	.89 × .47 × .55	774002 774002BK†

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†Bulk Package of 100

*DC rating not CSA or RU listed

Extra Heavy-Duty AC/DC Toggle Switches

- The switch that can handle your heavy-duty requirements
- Quick-make/quick-break type switches are ideal for DC voltage applications
- Perfect for industrial motor control, with its sturdy metal construction and stiff actuation force, it will withstand the abuses of virtually any application
- Bulk packaging of 100 available upon request



							Rating			
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Amps 125V	Amps 250V	HP 125-250V	Dimensions (L" × W" × H")	Cat. No.
M.	Heavy-Duty Toggle Switch	SPST	On-Off	Screw	2	16	8	1	1.75 × .84 × .76	774095
										774095BK†
	Heavy-Duty Toggle Switch	DPST	On-Off	Screw	4	16	8	1	1.75 × .84 × .76	774096
	Heavy-Duty Toggle Switch	DPST	On-Off	Screw	4	20	10	1-1/2	2.09 × 1.00 × .90	774097

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Toggle Switch Accessories

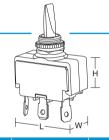
- These neoprene covers are great for outdoor and other environmentally tough conditions. They screw onto toggle switches to protect switches from moisture, dust and dirt.
- Nickel indicator plate fits easily on most toggle switches to identify the On-Off positions

Product	Description	Mounting	Dimensions	Qty./Card	Cat. No.
	Togglo Cuitob Cover	15/32 - 32 NS-2B	02 Haight v. 62 Paga Dia	2	774020
	Toggle Switch Cover	13/32-32 NS-2B	.93 Height × .62 Base Dia.	100	774020BK†
	Push Button Switch Cover (Clear)	3/8 - 27 NS-2B	.59 Height x .60 Base Dia. x .34 ID	2	774117
	Push Button Switch Cover (Gray)	15/32 - 32 NS-2B	.72 Height x .62 Base Dia. x .42 ID	2	774087
Silver Of the Control	Indicator Plate	15/32 in. Diameter	1.03 x .62 Hole Diameter	10	774099

†Bulk Package of 100

Double Insulated Plastic Toggle Switches

- Great for outdoor, marine/recreational equipment, automotive and weather resistant applications
- Double-insulated with an internal "O" ring design for moisture and dust resistance
- 1/2 in. diameter mounting hole
- Bulk packaging available upon request



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rat		Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Double Insulated, Plastic Toggle Switch	SPST	On-Off	Screw	2	20	10	$1.37 \times .76 \times .94$	774019
	Double Insulated, Plastic Toggle Switch	SPST	On-Off	Spade	2	20	10	1.37 × .76 × .94	774098
	Double Insulated, Plastic Toggle Switch	SPDT	(On)-Off-(On)	Spade	3	20	10	1.37 × .76 × .94	774004 774004BK†
	Double Insulated, Plastic Toggle Switch	DPDT	(On)-Off-(On)	Spade	6	20	10	1.37 × .76 × .94	774006

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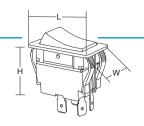
†Bulk Package of 100

() Denotes momentary action



Full-Size Rocker Switches

- For commercial appliances, industrial controls, automotive and marine applications
- Moisture- and dust-resistant
- Suitable for low-voltage DC applications
- Recommended .830 in. x 1.450 in. mounting hole, .125 in. panel thickness
- Operating temperature: 32°F to 185°F (0°C to 85°C)
- Bulk packaging available upon request

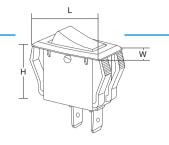


				Termination	No. of	Rating		Dimensions		
Product	Description	Poles	Circuitry	Style	Terminals	Amps 125 VAC	Amps 277 VAC	HP 110-250 VAC	(L" × W" × H")	Cat. No
	Black Rocker Switch	SPST	On-Off	Spade	2	20	15	2	1.70 × .97 × 1.09	774045
				·						774045B
	Black Rocker Switch	DPST	(On)-Off	Spade	4	20	15	2	1.70 × .97 × 1.09	77412
	Black Rocker Switch	DPST	On-(Off)	Spade	4	20	15	2	1.70 × .97 × 1.09	77412
	Black Rocker Switch	DPDT	On-On	Spade	6	20	15	2	1.70 × .97 × 1.09	77405
	Black Rocker Switch	DPDT	(On)-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774122
	Black Rocker Switch	DPDT	On-Off-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774040 774040B
	Black Rocker Switch	DPDT	(On)-Off-On	Spade	6	20	15	2	1.70 × .97 × 1.09	77412
	Black Rocker Switch***	DPDT	(On)-Off-(On)	Spade	6	15	10*	3/4**	1.70 × .97 × 1.09	774054B
	Red Lighted Rocker*** Switch	DPST	On-Off	Spade	4	15	10*	3/4**	1.70 × .97 × 1.09	77405
	Amber Lighted Rocker*** Switch	DPST	On-Off	Spade	4	15	10*	3/4**	1.70 × .97 × 1.09	77405



Appliance Rocker Switches

- Great for home appliances, computer equipment, automotive and industrial controls
- Appliance Rockers fit standard .55 in. × 1.12 in. panel cut outs
- Miniature Rockers fit .520 in. × .776 in. panel cut outs
- Plain and lighted versions available
- Operating temperature: 32°F to 185°F (0°C to 85°C)
- Bulk packaging of 100 available upon request



Product	Description	Rocker	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions (L" × W" × H")	Cat. No.
			SPST	On-Off	Spade	2			774038
	A . I' D	DI. I	SPDT	On-On	Spade	3	16 Amp 1/3 HP 125 VAC,	104 00 77	774049
1104	Appliance Rocker Switch	Black					10 Amp 1/2 HP 250 VAC	$1.24 \times 68 \times .77$	774049BK† 774059
			SPDT	On-Off-On	Spade	3			774059BK†
1104	Appliance Rocker Switch	Red Lighted	SPST	On-Off	Spade	3*	16 Amp 1/3 HP 125 VAC, 10 Amp 1/2 HP 250 VAC	1.24 × 68 × .77	774039
	Appliance Rocker Switch**	Visi-Red, Printed On-Off Vertical	SPST	On-Off	Spade	2	16 Amp 125 VAC, 10 Amp 250 VAC, 3/4 HP 125-250 VAC	1.24 × 68 × .72	774047
	Appliance Rocker Switch**	Visi-Red	SPST	On-Off	Spade	2	16 Amp 125 VAC, 10 Amp 250 VAC, 3/4 HP 125-250VAC	1.24 × 68 × .72	774052
0304	Miniature Rocker Switch	Red Lighted	SPST	On-Off	Spade	3*	16 Amp 1/3 HP 125 VAC, 10 Amp 1/2 HP 250 VAC	.83 × .59 × .50	774048

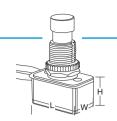
†Bulk Package of 100

*3rd terminal to power lighted rocker



Push-Button Switches

- Great for household appliances, lamps and motor controls
- Available in normally open, normally closed and standard On-Off circuitry
- Wire leads are #18 AWG, 6 in. stripped wire
- 1/2 in. diameter mounting hole
- Bulk packaging of 100 available upon request



Product	Description	Actuator	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Miniature Push-Button Switch*	Black Plastic	SPST	On-Off	Wire Lead	2	6 Amp 125VAC, 1 Amp 250VAC, 10 Amp 14VDC	.66 × .53 × .32	774082
	Round Body Push-Button Switch**	Black Plastic	SPST NO	(On)-Off	Screw	2	3/4 Amp 125VAC/DC, 1/4 Amp 250VAC/DC	.66 Dia. × 1.89	774083
(D=0	Round Body Push-Button Switch**	Black Plastic	SPST NC	On-(Off)	Screw	2	3/4 Amp 125VAC/DC, 1/4 Amp 250VAC/DC	.66 Dia. × 1.89	774084
	Momentary Contact Push-Button Switch	Black Plastic	SPST NO	(On)-Off	Screw	2	6 Amp 120VAC, 3 Amp 240VAC	.88 × .54 × .35	774022
6 =	Momentary Contact Push-Button Switch	Red Plastic	SPST NC	On-(Off)	Screw	2	3 Amps 120VAC, 1.5 Amp 240VAC	.88 × .54 × .35	774023
	Maintained Contact Push-Button Switch	Black Plastic	SPST	On-Off	Wire Leads	2	8 Amp 125VAC/DC, 4 Amp 250VAC/DC, 10 Amp 125VAC, 1/3 HP 125VAC	.98 × .64 × .62	774021
	Maintained Contact Push-Button Switch*	Nickel Plated	SPST	On-Off	Wire Leads	2	6 Amp 125VAC, 3 Amp 250VAC	.97 × .80 × .36	774024
	Maintained Contact Push-Button Switch*	Brass Plated	SPST	On-Off	Wire Leads	2	6 Amp 125VAC, 3 Amp 250VAC	.97 × .80 × .36	774025
	Maintained Contact Push-Button Switch**	Nickel Plated	SPST	On-Off	Screw	2	6 Amp 125VAC/DC, 3 Amp 250VAC/DC	1.18 × .52 × .54	774080
3 4	Maintained Contact Push-Button Switch**	Nickel Plated	SPST	On-Off	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	.92 × .66 × .46	774081
	Momentary Contact Push-Button Switch**	Nickel Plated	SPST NO	(On)-Off	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	1.38 × .58 × .60	774085 774085BK
	Momentary Contact Push-Button Switch**	Nickel Plated	SPST NC	On-(Off)	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	1.38 × .58 × .60	774086

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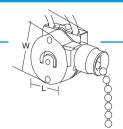
†Bulk Package of 100

() Denotes momentary action



Lever and Pull Chain Switches

- Use for ceiling fixtures, lamps and fans
- Wire leads are #18 AWG, 6 in. stripped wire
- Push in connectors for #18 AWG wire
- 13/32 in. diameter mounting hole
- Bulk packaging of 100 available upon request



		Pull-Chain			Termination			Rating			
Product	Description	Color	Poles	Circuitry	Туре	Circuit	Amps 125 VAC	Amps 250 VAC	Amps 125 VL	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	All-Angle Lever Switch*	Nickel	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	_	1.50 × 1.28 × .50	774035
	Pull Chain	Nickel	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	3	.92 × .88 × .67	774031
The state of the s	Pull Chain	Brass	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	3	.92 × .88 × .67	774032
	2-Speed Pull Chain*	Brass	SPDT	Off-On-On	Push-In	3 Pos - 3 Wire	6	3	6	1.43 × 1.25 × .73	774033
	3-Speed Pull Chain*	Brass	SPTT	Off-On-On-On	Push-In	4 Pos - 4 Wire	6	3	_	1.43 × 1.25 × .73	774034
	3-Speed Pull Chain	Brass	SPTT	Off-On(A)-On(B)-	Wire Leads	4 Pos - 3 Wire	6	3	_	.87 × 1.05 × .65	774037
400000	·			On(A+B)				-"		-	774037BK†

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Cord Switches

- Place your lighting controls in a convenient location with a lamp cord toggle switch
- Available in brown or ivory
- Bulk packaging available upon request



Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
•	Cord Switch	lvory	SPST	On-Off	Pass Thru	6 Amp 125VAC, 3 Amp 250VAC, 3 Amp 125VT	1.38 × .62 × .73	774072 774072BK†
	Cord Switch	Brown	SPST	On-Off	Pass Thru	6 Amp 125VAC, 3 Amp 250VAC, 3 Amp 125VT	1.38 × .62 × .73	774071 774071BK†
	Cord Toggle Switch	lvory	SPST	On-Off	Pass Thru	10 Amp 125VAC, 5 Amp 250VAC	2.50 × .83 × 1.28	774074 774074BK†
	Cord Toggle Switch	Brown	SPST	On-Off	Pass Thru	10 Amp 125VAC, 6 Amp 250VAC	2.50 × .83 × 1.28	774073



Door and Slide Switches

- Standard slide switch fits 9/16 in. x 7/8 in. opening
- Door switches are great for closets, turning the light on when the door is open and off when it is closed
- Door switch kit comes with metal box, cover plate and mounting hardware

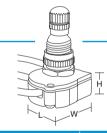


Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Slide Switch	Black Slide	SPST	On-Off	Solder Terminals	10 Amp 125VAC, 5 Amp 250VAC	1.38 × .44 × .30	774051
0	40/D0 D C.::	M/hita Duttan	CDCT	Name III. On (Off)	Min Landa	10 4 1/0 UD 105 (050) (40	C 1.25 × 2.75 × 2.0	774026K
	AC/DC Door Switch Kit	White Button	SPST	Normally On-(Off)	Wire Leads	10 Amp 1/3 HP 125/250VAC		774026KBK†
								774026
The state of the s	Door Replacement Switch	White Button	SPST	Normally On-(Off)	Wire Leads	10 Amp 1/3 HP 125/250VAC	1.17 × .69 × .98	774026BK†

N° (s) c N° us () Denotes momentary action †Bulk package of 25

Rotary Switches

- Rotary switches are perfect for household appliances, ceiling fixtures and lamps
- Single or three-position switches available
- #18 AWG, 6 in. stripped wire leads
- Bulk packaging available upon request



Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions $(L'' \times W'' \times H'')$	Cat. No.
	Rotary Switch	Black Plastic	SPST	On-Off	Wire Leads	3 Amp 125VAC, 1.5 Amp 250VAC	.60 Dia ×	774063B
							.730 overall height	774063BK†
	Rotary Switch	Brass Plated	SPST	On-Off	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.97 × .80 × .39	774061
	3-Way Rotary Switch	Brass Plated	SPTT	Off-On(A)-On(B)- On(A+B)	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.86×1.03×.34	774062
	Rotary Switch	Black Plastic	SPST	On-Off	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.89 × .79 × .31	774069

Flush Indicator Lights

Nylon body with flush transparent polycarbonate lens and stainless steel bezel, 94V-2 flammability rating

■ 6 in. wire leads, 1/2 in. mounting diameter

Lamp voltage is AC/DC

Operating Temperature: Nylon Body: 140°C

Polycarbonate lens: 135°C

Product	Description	Lens Color	Lamp Voltage	Watts	Amp Rating	Average Life (hrs)	Lamp Type	Termination Style Style	Height (Base" × Bezel")	Cat. No.
	Flush Indicator Light	Red	14V	1.2	.08	50,000	Incandescent	6" Wire Leads	.91 × .10	775121*
	Flush Indicator Light	Red	28V	1.2	.04	25,000	Incandescent	6" Wire Leads	.91 × .10	776121*
	Flush Indicator Light	Red	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 × .10	777121* 777121BK†
II	Flush Indicator Light	Green	125V	1/3	2mA Max.	15,000	Neon	6" Wire Leads	.91 × .10	777221* 777221BK†
	Flush Indicator Light	Amber	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 × .10	777321* 777321BK†



†Bulk Package of 100

Raised Indicator Lights

Nylon body with raised transparent polycarbonate lens and stainless steel bezel, 94V-2 flammability rating



■ Lamp voltage is AC/DC

Operating Temperature: Nylon Body: 140°C

Polycarbonate lens: 135°C





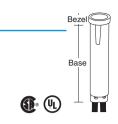


*VDE certified



Miniature Indicator Lights

- Nylon body with flush transparent polycarbonate lens
- 6 in. wire leads
- 5/16 in. mounting diameter
- Lamp voltage is AC/DC
- Bulk packaging available upon request



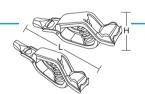
Product	Description	Lens Color	Lamp Voltage	Watts	Amp Rating	Average Life (hrs)	Lamp Type	Termination Style Style	Height (Base" × Bezel")	Cat. No.
	Miniature Indicator Light	Red	125V	1/3	2mA Max.	25,000	Neon	6 in. Wire Leads	1.43 × .13	777131
	Miniature Indicator Light	Green	125V	1/3	2mA Max.	15,000	Neon	6 in. Wire Leads	1.43 × .13	777231
	Miniature Indicator Light	Amber	125V	1/3	2mA Max.	25.000	Neon	6 in. Wire Leads	1.43 × .13	777331
II	Williature mulcator Light	AIIIDEI	1237	1/3	ZIIIA IVIdX.	23,000	INCOLL	o III. Wife Leaus	1.43 X .13	777331BK†

Indicator Light Part No. System

Series	Voltage	Color	Mounting Diameter Lens Style	Terminators
	5 - 14V	1 - Red	1 - 1/2 in. Raised	1 - 6 in. Wire Leads
	6 - 28V	2 - Green	2 - 1/2 in. Flush	2187 in. Spade
77	7 - 125V	3 - Amber	3 - 5/16 in. Flush	_
	8 - 250V	4 - Blue	_	_
	_	5 - Clear	_	_

Battery Clips

- Great for testing and many other electrical applications
- Insulated grips are color-coded for positive (red) and negative (black) identification
- For screw and/or crimp connections

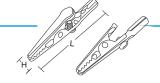


Product	Description	Amps	Dimensions (L" × H")	Jaw Opening	Wire Diameter	Qty.	Cat. No.
A SECOND	Miniature General Purpose Clip	5	1-17/32 x 15/32	5/16 in.	9/64 in.	2	770218L
	General Purpose Clip	10	2 x 5/8	1/2 in.	3/16 in.	1 Red/1 Black	170207L
	Test and Battery Clip	20	2-1/2 x 5/8	5/8 in.	3/16 in.	1 Red/1 Black	170208L
	Test and Battery Clip	30	2-1/2 x 5/8	5/8 in.	3/16 in.	1 Red/1 Black	170209L
14	Copper Test & Battery Clips*	40	2-7/16 x 11/16	5/8 in.	3/16 in.	2	770217L
The Table	Copper Test & Battery Clips*	75	3 x 15/16	3/4 in.	9/32 in.	2	770216L
160	Copper Test & Battery Clips*	100	4-7/64 x 19/16	1-1/16 in.	11/30 in.	2	770215L
	Insulated Grips for 770217L	_	3-1/2 x 3/4 ID	_	_	1 Red/1 Black	770223L
	Insulated Grips for 770216L		3-7/8 x 11/64 ID		_	1 Red/1 Black	770219L
	Insulated Grips for 770215L	_	5 x 1-13/32 ID	_	_	1 Red/1 Black	770221L

*Insulators sold separately

Alligator Clips

- Great for temporary connections, testing wires and troubleshooting projects
- Spring-loaded, grab-tight jaws make these clips quick and easy-to-use
- For screw and/or crimp connections



Product	Description	Amps	Dimensions (L \times H)	Jaw Opening	Wire Gauge	Qty.	Cat. No.
	Non-Insulated	_	2 in. × 7/16 in.	5/16 in.	#22 - #14	4	770200L
	Insulated Barrel	_	2-1/2 in. × 7/16 in.	5/16 in.	#22 - #14	1 Red/1 Black	770204L
100	Fully Insulated	_	2-1/2 in. × 7/16 in.	5/16 in.	#22 - #14	1 Red/1 Black	770205L

Plier-Type Battery Clamps

- Great for battery charging and test equipment
- Insulated grips are color-coded for positive (red) and negative (black) identification
- For crimp or solder connections



Product	Description	Amps	Dimensions (L" \times H")	Jaw Opening	Wire Dia.	Qty.	Cat. No.
	Plier-Type Battery Clip, Steel	50	2-7/8 in. x 2 in.	1-1/8 in.	9/32 in.	1 Red/1 Black	770213L
A A	Plier-Type Battery Clin	1-1/8 in.	9/32 in.	1 Red/1 Black	770212L		
		1-9/16 in.	9/16 in.	1 Red/1 Black	770225L		



How to Select Resurfacer Grade

Small Motor and Pocket Resurfacers

Grade code letters designate the following grade combinations:

- G Coarse/Medium A Medium/Finish **B** Coarse/Finish H Medium/Polish
- **D** Finish/Polish

All Other Resurfacers

Resurfacers for commutators and copper-alloy slip rings are made in five grades:

- **X** Extra coarse very fast cutting, for "hogging" off excessive copper
- C Coarse fast cutting
- **M** Medium for general use, high mica, small ridges and burns
- **F** Finish—for use after the three grades above, for periodic application and for removing small burns and ridges immediately after their appearance
- Polish very fine grade (220 aggregate grain) for burnish finish

For all resurfacers, specify grade by adding the appropriate letter as a suffix to the catalog number. (Example: 80-475M for medium grade.)

How to Select Resurfacer Size

Size is always written length x width x thickness (working face area x depth of stone). For handle types, the handle is mounted parallel to the first dimension. Always use a resurfacer with the largest face possible (length x width). Thickness should be governed by clearance around commutator or ring.

Commutator Resurfacers

The resurfacer should have a width of approximately 3/4 the length of the commutator bar and as long as will conveniently go between the brush riggings. For periodic application, three or four sizes are generally sufficient. After determining approximate dimensions, select nearest standard size and type.

Slip Ring Resurfacers

When space permits, use a resurfacer about 1 in. wider than the face width of the ring. Length should be at least three times greater than the longest flat spot to bridge over and ensure a true ring.

Small Motor-Type Resurfacer

- Different grades of stone on each end
- 10 in, handle
- For use on small fractional horsepower motors

Size (In.)	Grades	Cat. No.
3/4 x 1/2 x 3/8	A, B, D	80-012*

^{*}Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Tool-Type Resurfacer

- For use in lathe-turning device
- Two resurfacers required for each grinder



Sizes (In.)	Grades	Cat. No.
3/4 x 3/4 x 3		80-504*
1 x 1-1/2 x 6-1/2	C, M, F	80-454*
1 x 2 x 8	O, IVI, I	80-461*
2 x 2 x 8		80-475*

^{*}Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Pencil-Type Resurfacer

For use on fans, signal motors, auto generators, locomotive headlight motors and other fractional horsepower motors

Size (In.)	Grades	Cat. No.
5/8 x 3/8 x 6	C, M, F, P	80-075*

^{*}Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Tramway-Handle Resurfacer

- Handle shaped to ensure secure grip
- 10-1/2 in. handle permanently mounted at 45° angle

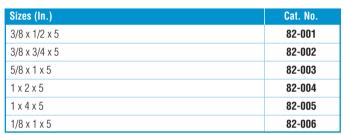


Sizes (In.)	Grades	Cat. No.
2 x 1-1/2 x 2	C. M. F	80-255*
2 x 2 x 2	O, IVI, I	80-265*

^{*}Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Powr-Polish™ Flexible Abrasive

- Fine-grain, non-dusting abrasive held together by a flexible bond
- Serves as both commutator cleaner and burnisher
- Removes dirt and greaseimparts super-finished surface
- Non-conductive and non-loading



Please allow 2-3 weeks for delivery.

Brush Seater and Commutator Cleaner



- Gentle acting abrasive for seating carbon brushes and cleaning commutators and slip rings
- Soft, loosely bound grain produces a scouring effect when held against commutator
- Will not remove or scratch copper
- Self-cleaning
- Available in soft(S), medium(M) and hard(H) grades

Sizes (In.)	Grades	Cat. No.
1/4 x 1/4 x 4-3/4	M, H	23-001*
1/2 x 1/4 x 4-3/4	M, H	23-002*
3/8 x 3/8 x 4-3/4	M, H	23-003*
1/2 x 3/8 x 4-3/4	M	23-004*
1/2 x 1/2 x 4-3/4	M	23-005*
5/8 x 1/2 x 4-3/4	M	23-006*
3/4 x 1/2 x 4-3/4	S, M, H	23-007*
1-1/8 x 5/8 x 4-3/4	S, M, H	23-008*
1/2 x 1 x 4-3/4	S, M	23-027*
1 x 1 x 4-3/4	_	23-035\$
2 x 1 x 4-3/4		23-036S
3 x 2 x 4	_	23-039\$
3 x 2 x 6	_	23-041\$
3 x 2 x 8	_	23-042\$

*Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Commutator Smoothie® Resurfacing Tool

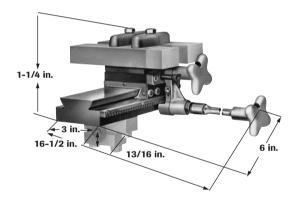


- Designed to smooth commutators of auto generators, starting motors and other similar equipment
- 8-1/2 in. plastic handle with a 5/16 in. x 7/8 in. x 11/16 in. resurfacer on each end
- Features one polish-grade and one finish-grade resurfacer
- Bent handle reaches into any motor frame
- Non-conductive for user safety

Description	Cat. No.
Commutator Smoothie® Resurfacing Tool	80-033

Please allow 2-3 weeks for delivery.

Midget Precision Grinder



- Right-angle rack and pinion allows for operation in small areas
- 6 in. base recommended for commutator widths up to 9-1/4 in. (includes extra 1 in. travel obtained by setting resurfacers at slight angle)
- Includes convenient carrying case
- Two tool-type resurfacers required 80-454 recommended

Description	Cat. No.
Midget Precision Grinder	24-033

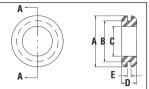
Order tool-type resurfacers and brush arm supports separately.



Grommets*

- Installs instantly! Flexible PVC grommets side slotted 1/16 in. for quick installation
- Snap into holes in electrical boxes, sheet metal, auto firewalls and more
- Prevents steel and other sharp edge chafing of wire insulation or cording
- Black, PVC, flexible, 60 durometer





Description	A	В	C	D	Е	Qty.	Cat. No.
1/4" Grommets	9/16	.37	1/4	.28	3/32	6	774114
1/4" Grommets	9/16	.37	1/4	.28	3/32	25	774116
1/4" Grommets	9/16	.37	1/4	.28	3/32	1,000	774114BK
3/8" Grommets	43/64	.49	3/8	.28	1/16	5	774138
3/8" Grommets	43/64	.49	3/8	.28	1/16	25	774137
1/2" Grommets	55/64	.69	1/2	.25	1/16	4	774112
1/2" Grommets	55/64	.69	1/2	.25	1/16	25	774113
3/4" Grommets	15/64	1.0	3/4	.31	1/16	3	774134
3/4" Grommets	15/64	1.0	3/4	.31	1/16	25	774136

^{*}Buchanan branded

Spacer Shims*

- Eliminates the need to cut plate screws for "GFCI" decorator devices when installing on tile, marble, etc.
- Supports loose outlets
- Prevents broken face plates
- Snaps over #6, #8, #10 screws
- Also works as a shim

Description	Qty.	Cat. No.
Caterpillar	5	772450
Caterpillar	25	172451
Caterpillar	500	772451

^{*}Buchanan branded

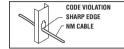
Universal Metal Stud Bushings

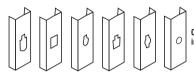
 Non-metallic stud bushing fits all hole configurations you are likely to encounter in pre-punched steel studs



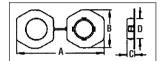
 Long pulls of cable slide smoothly through the bushing, make a difficult job easier

Protects wire without falling out of the hole





Common hole configurations in metal studs.



Description	A	В	C	D	Qty.	Cat. No.
Stud Bushing	5.670	2.50	.505	1.30	25	772271



- Reusable cover saves masking time and clean up
- Snap-on to protect from paint drips and overspray
- Works in side-by-side (multi-gang) applications
- Protects entire device when rolling, brushing or spraying

Shields are intended to cover most standard outlets, GFCI outlets, standard switches and decorator switches to protect them from paint.



Description	Qty.	Cat. No.
Switch Paint Cover	10	20-110
Switch Paint Cover	100	20-100
Receptacle Paint Cover	10	20-210
Receptacle Paint Cover	100	20-200









Multimeter Selection Guide

	31 2	12 0		0 Se		94 94		36 23		49		900 600	61 2	
MULTIMETER SELECTION GUIDE	61-310	61-312	61-320	61-322	61-324	61-340	61-342	61-360	61-361	61-494	61-495	61-605	61-610	61-614
	9	9	9	9	9	9	9	9	9	9	9	9	9	9
MEASUREMENT FUNCTIONS														
AC & DC Voltage	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•	•	•	•		•	•
DC Current			•		•	•	•	•		•	•			
Resistance	•	•	•	•	•	•	•	•	•	_		•	•	•
LV Resistance										•	•			
Audible Continuity	•	•	•	•	•	•	•	•	•	•	•	•		•
Diode Test	•	•	•	•	•	•	•	•	•	•	•	•		
Capacitance		•	•	•	•	•	•		•	•	•			
Frequency		•	•	•	•	•	•		•	•	•			
Temperature	•	•				•	•			•	•			
Duty Factor						•	•			•	•			
Battery Test	•												•	•
Decibels										•	•			
Phase Rotation									•					
FEATURES														
Display Type (Digital or Analog)	D	D	D	D	D	D	D	D	D	D	D	D	Α	Α
True RMS			•	•			•	•	•	•				
Auto/Manual Ranging		•	•	•	•	•	•			•	•	•		
Data Hold/Auto Hold	D	D	D	D	D	D	D	D		Α	Α	D		
Max Hold							•							
Peak Hold			•	•						•	•			
Min/Max			•	•	•	•	•							
Min/Max/Avg										•	•			
Peak Min/Max			•	•	•					•	•			
Relative Mode			•	•	•	•	•			•	•			
High Speed Analog Bar Graph			•	•	•					•	•			
Auto Power Off		•	•	•	•	•	•	•	•	•	•	•		
Backlight				•	•	•	•		•	•				
Low Battery Indication		•	•	•	•	•	•	•	•	•	•	•		
Dual Display										•	•			
Overload Protection on All Ranges	•	•	•	•	•	•	•	•	•	•	•	•		
Data Logging										•	•			
Data Acquisition					•					•	•			
Memory Storage & Recall										•	•			
Optical USB Interface					•					•	•			
Optional ProVision™ Software					•					•	•			
Warranty (years)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CERTIFICATIONS		۷		۷.	۷	۷	۷	۷		2	۷	۷		۷
UL 61010 Listed (4) us	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CAT Rating	II	II	IV	IV	IV	III	III	III		III	III	II	II	
S .														
CE CE	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Test and Measurement

Platinum Pro ·

Contractor-Grade Multimeters

Features







- AC/DC voltage
- Capacitance
- Frequency
- Auto/manual ranging
- Peak min/max
- Max/min
- Relative mode
- Data hold
- Low battery indicator
- Auto power off
- 2-year warranty







320 Series Specificat	ions	61-320	61-322	61-324
	RANGE & RESOLUTION		BASIC ACCURACY	
AC VOLTAGE	400.0m/4.000/40.00/400.0/750 V	1.3%	1.3%	1.3%
DC VOLTAGE	400.0m/4.000/40.00/400.0/1000 V	0.5%	0.5%	0.5%
AC CURRENT	400.0μ/4000μ/40.00m/400.0m A	_	1.5%	1.5%
DC CURRENT	400.0μ/4000μ/40.00m/400.0m A	1.5% (µA range only)	1.5%	1.5%
RESISTANCE	400.0/4.000k/40.00k/400.0k./4.000M/40.00M Ω	0.7%	0.7%	0.7%
CAPACITANCE	4.000n/40.00n/400.0n/4.000μ/40.00μ/ 400.0μ/4.000m/40.00m F	1.9%	2.0%	2.0%
FREQUENCY	4.000k/40.00k/400.0k/4.000M/40.00M Hz	0.01%	0.1%	0.1%

Accessories

Includes	
Test Leads w/Alligator Clips*	
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-31)	
Magnetic Strap	61-565
ProVision™ Software	61-904
USB Cable	61-905

^{*}See chart on page F-34 for replacement test leads and fuses.



61-904

320 Series ProVision™ Software





Platinum Pro® and 350 **Series Multimeters**

61-565

Optional magnetic strap frees up your hands to help you work safe.



PathumPro.

Industrial-Grade Multimeters

Features

- True RMS
- Data acquisition
- Data logging
- Data storage
- Frequency
- Capacitance
- Temperature
- Low voltage Ω
- Duty factor
- dBm/dB
- Auto/manual ranging
- Dual display
- Analog bar graph
- Auto power off
- Peak hold
- Min/max/avg
- Relative mode
- 20,000 count high resolution mode
- Backlight
- Low battery indication
- 2-year warranty







Data acquisition and analysis with 490 ProVision™ software.



61-494 **Data logging** (6,000 records)

61-565

Magnetic Strap

Accessories

Includes	
Carrying Case	
Test Leads with Alligator Clips**	
Optional	
Current Clamp Adapters (page E-31)	
Magnetic Strap	61-565
ProVision™ 490 Software*	61-900
USB Cable*	61-902

^{*}Included with 61-495.

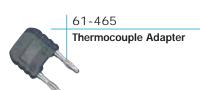
**See chart on page F-34 for replacement test leads and

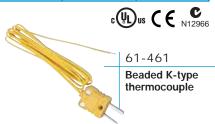


61-900 490 Series ProVision™ Software



490 Series Specificat	61-494	61-495	
	RANGE & RESOLUTION		CCURACY
AC VOLTAGE	20.000m/200.00m/2.0000/20.000/200.00/750.0 V	0.7%	0.7%
DC VOLTAGE	20.000m/200.00m/2.0000/20.000/200.00/1000.0 V	0.06%	0.06%
AC CURRENT	20.000m/200.00m/2.0000/10.000 A	0.1%	0.1%
DC CURRENT	20.000m/200.00m/2.0000/10.000 A	0.3%	0.2%
RESISTANCE	200.00/2.0000k/20.000k/200.00k/ 2.0000M/20.000M/200.00M/2.0000G Ω	0.6%	0.6%
LV RESISTANCE	2.0000k/20.000k/200.00k/ 2.0000M/20.000M/200.00M Ω	0.3%	0.3%
CAPACITANCE	4.000n/40.00n/400.0n/4.000μ/ 40.00μ/ 400.0μ/4.000m/40.00mF	0.9%	0.9%
FREQUENCY	20.000/200.00/2.0000k/20.000k/200.00k/1.0000M Hz	0.01%	0.01%
DUTY FACTOR	20% - 80%	1.0%	1.0%
TEMPERATURE	-150° F to 2200° F (-100° C TO 1200° C)	0.1%	0.1%





Test and Measurement

340 Series Meters

Features



- AC/DC voltage
- AC/DC current
- Resistance
- Audible continuity
- Capacitance
- Frequency
- Temperature
- Relative mode
- Backlight
- Min/max
- Data hold
- Low battery indicator
- Auto power off
- 2-year warranty





61-340

Accessories

Includes	
Test Leads*	
Thermocouple	TC-340
Optional	
Carrying Case	C-290
600A AC/DC Clamp Adapter	61-334
Current Clamp Adapters	61-451

*See chart on page F-34 for replacement test leads and

490 Series Specifications		61-340	61-342
	RANGE & RESOLUTION		CCURACY
AC VOLTAGE	4.000/40.00/400.0/1000 V	1.5%	1.5%
DC VOLTAGE	400.0m/4.000/40.00/400.0/1000 V	0.5%	0.5%
CURRENT	400.0μ/4000μ/40.00m/400.0m/4.000/10.00A AC/DC	1.5%	1.5%
RESISTANCE	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%	1.0%
CAPACITANCE	40.00n/400.0n/4.000µ/ 40.00µ/400.0µ F	3.0%	3.0%
FREQUENCY	10.000/100.00/1.000k/10.00k/100.0k/1.000M/4.000M Hz	0.3%	0.3%
TEMPERATURE	-4° F to 1382° F (-20° C to 750° C)	3.0%	3.0%







Test-Pro® Contractor-Grade Multimeters

Features



- AC/DC voltage
- AC/DC current
- Resistance
- Audible continuity
- Manual ranging
- Rugged construction
- Auto power off
- Low battery indication
- 2-year warranty



61-361

True RMS, phase rotation, capacitance, frequency

Accessories

Includes	
Test Leads* w/Alligator Clips	
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-31)	
Magnetic Strap	61-565

*See chart on page F-34 for replacement test leads and



360 Series Sp	ecifications 61-360	61-361		
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	1.0%	200.0m/2000m/200.0/600 V	2.0%
DC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	0.5%	200.0m/2000m/20.00/200.0/600 V	1.2%
AC CURRENT	200.0μ/20.00m/200.0m/10.00 A	1.5%	2.000 A	3.0%
DC CURRENT	200.0μ/20.00m/200.0m/10.00 A	1.0%	2.000 A	2.5%
RESISTANCE	200.0/2.000k/20.00k/200.0k/2.000M/20.00M	Ω 1.0%	200.0/2.000k/20.00k/200.0k/20.00M/200.0M S	2 1.0%
CAPACITANCE	_	_	20.00μ/200.0μ/2.000m/20.00m F	4.0%
FREQUENCY	_	_	10.0-100.0k Hz	0.50%
PHASE ROTATION	_	_	80-500V (50-500Hz)	_









Test and Measurement

Pocket Meter

Features



- Low cost, multi-function
- Convenient pocket size
- Built-in test stand
- Overload protection on all ranges
- 2-year warranty

Specifications	61-605	
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	200.0m/2.000/20.00/200.0/600 V	4.0%
DC VOLTAGE	200.0m/2.000/20.00/200.0/600 V	2.0%
RESISTANCE	200.0/2.000k/20.00k/200.0k/2.000M/20.00M Ω	3.0%



310 Series Residential Meters

Features



- AC/DC voltage
- Current
- Resistance
- Audible continuity
- Temperature
- Data hold
- Diode test
- Large numbers displayed
- Overload protection on all ranges
- Rubber boot
- 2-year warranty



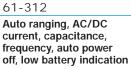
710000001100				
Includes				
Test Leads*				
Thermocouple	TC-310			

*See chart on page F-34 for replacement test leads and





61-310 Manual ranging, tests batteries, DC current



310 Series Specifications 61-310			61-312		
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	
AC VOLTAGE	200.0/600 V	1.2%	4.000/40.00/400.0/600 V	1.2%	
DC VOLTAGE	200.0m/2.000/20.00/200.0/600 V	0.5%	400.0m/4.000/40.00/400.0/600 V	0.5%	
CURRENT	200.0m/10.00 ADC	1.5%	400.0μ/4000μ/40.00m/400.0m/10.00 A AC/DC	1.5%	
RESISTANCE	200.0/2.000k/20.00k/200.0k/20.00M Ω	1.0%	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	1.0%	
CAPACITANCE	—	_	40.00n/400.0n/4.000μ/40.00μ/400.0μ F	3.0%	
FREQUENCY	_	_	10.00/100.0/1.000k/10.00k/100.0k/1.000M/10.00M Hz	2 0.3%	
TEMPERATURE	-4-1382°F (-20-750°C)	2.5%	-4-1382°F (-20-750°C)	2.5%	









Analog Multimeters

Features

- Multi-color analog display with mirrored scale
- High-impact thermoplastic case
- Battery test
- 2-year warranty



Accessories

Inc	iuaes	
Test	Leads3	

^{*}See chart on page F-34 for replacement test leads and

61-610 Pocket size, diode protected

610 Series Specifications 61-610		61-614		
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	10/50/250/500 V	+/- 4.0% Full Scale	10/50/250/1000 V	+/- 4.0% Full Scale
DC VOLTAGE	10/50/250/500 V	+/- 3.0% Full Scale	2.5/10/50/250/1000 V	+/- 3.0% Full Scale
DC CURRENT	500μ/50m/250m A	+/- 3.0% Full Scale	5m/50m/500m/20 A	+/- 3.0% Full Scale
RESISTANCE	1 M Ω Full Scale 5 k Ω Mid Scale	+/- 3.0% Arc Length	10k/100k/10M Ω Full Scale 50/500/50k Ω Mid Scale	+/- 3.0% Arc Length
DECIBELS	-20 to +56 dB	_	-8 to +62 dB	_
BATTERY TEST	_	_	1.5 , 9.0 VDC	_







Clamp Meter Selection Guide

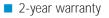
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4-in-1 Test Tools

Features

- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Capacitance
- Low battery indication
- Overload protection on all ranges
- Integral lead storage
- Audible dangerous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head





Vibration mode to verify AC voltage, harmonics indicator, data hold, max hold





61-704

True RMS,

backlight, vibration

mode to verify AC voltage, harmonics

indicator, max hold

61-701

Frequency, data hold, max hold

Accessories

Includes
Carrying Case
Silicone Test Leads*

^{*}See chart on page F-34 for replacement test leads and fuses.

700 Series Specific	ations 61-70	1	61-702 & 61-704		
	RANGE & RESOLUTION	BASIC ACCURACY	RANGE & RESOLUTION	BASIC ACCURACY	
AC VOLTAGE	200.0/600 V	1.2%	2000m/200.0/750 V	1.2%	
DC VOLTAGE	20.00/200.0/600 V	0.5%	2000m/200.0/1000 V	0.5%	
AC CURRENT	200.0 A	3.0%	200.0 A	3.0%	
RESISTANCE	200.0/200.0k Ω Scale	1.0%	200.0/200.0k Ω	1.0%	
CAPACITANCE	200.0μ F	3.0%	200.0μ F	3.0%	
FREQUENCY	2.000k/20.00k/40.00k Hz (Auto	0.1%	_	_	

Jaw opening is 1.3" (33mm).









200 Amp Clamp/Multimeter Use it for testing a variety of electrical parameters on branch circuits or at receptacles.



Non-Contact Voltage Tester Use it for one-touch indication of power without test leads.



Voltage Tester with Shaker Use it for tactile feel of AC voltage.



Harmonics Tester Use it to ensure that a circuit contains clean power, free of harmonic distortion.

600 Amp Clamp Meters

Features



- Measures up to 600AAC
- Non-contact voltage indicator (70V-600VAC)
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator

2-year warranty





Accessories

Includes	
Carrying Case	
Standard Test Leads	

*See chart on page F-34 for replacement test leads and

740 Series Specifications		61-744	61-746
	RANGE & RESOLUTION	BASIC AC	CCURACY
AC CURRENT	40.00/400.0/600A	1.7%	1.7%
AC VOLTAGE	400.0/600 V	1.2%	1.2%
DC VOLTAGE	400.0/600 V	0.5%	0.5%
RESISTANCE	400.0/4.000k/ 40.00 k 400.0 k/4.000M/40.00M $Ω$	1.0%	1.0%

Jaw opening is 1.25" (32mm).





Compact jaw for use in tight locations.



660 Amp Clamp Meters w/TightSight™ bottom display

Features





- Measures up to 660AAC
- Voltage-presence warning on all lead functions (selectable audible)
- Bright, bold backlit display
- Tapered jaws with hook tip
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator

2-year warranty





		Range & Resolution		
760 Series	61-764	61-766	61-768	Accuracy
AC CURRENT		66.00/660.0 A	660.0 A	1.7%
DC CURRENT	_	_	660.0 A	1.5%
AC VOLTAGE		660m/6.600/66.00/660.0/750 V		1.2%
DC VOLTAGE	E 660m/6.600/66.00/660.0/1000 V			0.5%
RESISTANCE	ANCE $660.0/6.600$ k/ 66.00 k/ 660.0 k/ 6.6 M/ 10 M Ω			1.0%
CAPACITANCE	_	6.600µ/66.00µ/660.0µ F	-	3.0%
		20 - 400 Hz		
FREQUENCY	-	Sensitivity: ≥5A for 20-100 Hz	-	0.1%
		≥10A for 100-400 Hz		

Jaw Size 1.42" (36 mm)

Accessories

Includes	
Carrying Case	C-760
Test Leads w/Alligator Clip	TL-104

Safety First!

66AAC low range

c**(ŲL)**us **(€** € N12966

The complete line of industrial clamps from IDEAL was designed to set a new standard for safety technology. It starts with the revolutionary TightSight™ display. It allows an electrician to keep his head and face out of potentially dangerous panels while viewing the measurement. The high voltage indicator is another feature not to be taken for granted. It indicates the presence of voltage through the test leads even with the dial set to the wrong function. The CAT III and IV ratings, rugged construction and UL listing should give every electrician the confidence to go about the job without worrying about equipment safety.

1000 Amp Clamp Meters w/TightSight™ bottom display

Features





- Measures up to 1000AAC
- Voltage-presence warning on all lead functions (selectable audible)
- Bright bold backlit display
- Tapered jaws with hook tip
- True RMS
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- 2-year warranty



770 Series	Range 8 61-772	Resolution 61-774	Accuracy	
AC CURRENT	66.00/6	660.0/1000 A	1.7%	
DC CURRENT	-	660.0/1000 A	1.5%	
AC VOLTAGE	660m/6.600/	660m/6.600/66.00/660.0/750 V		
DC VOLTAGE	660m/6.600/66.00/660.0/1000 V		0.5%	
RESISTANCE	660.0/6.600k/66.00k/660.0k/ 6.6M/10M $_{\Omega}$		1.0%	
CAPACITANCE	-	6.600µ/66.00µ/ 660.0µ F	3.0%	

Jaw Size 2" (51 mm)







Accessories

Includes
Carrying Case
Test Leads w/Alligator Clip Lead

*See chart on page F-34 for replacement test leads and





Analog Clamp Meter

Features

- 600AAC current capability
- Ohms scale
- Rotary drum
- Broad frequency response (50-400Hz)
- Analog display
- Pointer lock
- 2-year warranty

Includes carrying case

Meter Specifica	tions 61-710	
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	150/300/600 V	3.0% F.S.
AC CURRENT	6/20/60/200/600 A	3.0% F.S.
RESISTANCE	2k Ω	3.0% F.S.





Accessories

Includes
Carrying Case
Test Leads

*See chart on page F-34 for replacement test leads and

Leakage Current Clamp Meter

Features



- 0.01mA 400.0mA 0.01A - 60.0A
- Data hold
- Analog bar graph
- Min/max
- 2-year warranty Includes carrying case

Accessories

Includes		
Carrying Case		
Test Leads		

*See chart on page F-34 for replacement test leads and fuses.

Meter Specifica	tions 61-452	
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	400.0 V	1.5%
AC CURRENT	40.00m/400.0m/4.000/40.00/60.0 A	2.0%
RESISTANCE	400.0 Ω	1.0%





Combo Cases™

Features

- Top selling tools in rugged cases
- Unmatched value
- Large storage compartments
- 2-year warranty

61-2000

Tester Combo Case™ Includes: #61-086 Vol-Con® XL Voltage Tester (E-27) #61-534 Circuit Breaker Finder (E-24)

#61-063 Non-Contact Voltage Tester (E-29)



61-2001

Meter Combo Case™ **Includes:**

#61-340 Multimeter (E-5)

#61-744 600 Amp Clamp (E-11)



61-2002

Clamp Combo Case™ Includes:

#61-766 TightSight™ Clamp Meter (E-12) #61-521 Phase Rotation Tester (E-30)





SureTest® Open/Closed Circuit Tracers

Features



- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires
- "0-99" display of signal strength
- Audible intensifies in tone/pitch
- Can be used on circuits 0-600V AC/DC
- Works on energized or de-energized circuits
- Four modes of sensitivity search high, search low, trace and breaker
- Peak bar graph
- 2-year warranty





61-958

Super bright rotating OLED display receiver, transmitter, test lead set, inductive clamp, battery pack



61-956

Super bright rotating OLED display, transmitter, test lead set



Exclusive Rotating Display

Revolutionary technology in the SureTest® 958 rotates the display in 90° increments so that you always receive an upright reading. Even when the receiver is pointing down, you can keep up.

> Transmitter will work on a de-energized circuit and won't affect GFCIs and sensitive equipment on an energized circuit.



SureTest® Circuit Tracers



In Breaker Mode receiver identifies the correct circuit to which the transmitter is connected.



Inductive Clamp allows you to induce a tracer signal on the cable without affecting the low voltage signals on the circuit.



Sorting Wires Individual wires can be sorted, opens can be located and shorts can be isolated.



IC-958, BP-958 Inductive Clamp w/ **Battery Pack**



RC-954 Receiver **Red LED display**



TR-958 **Transmitter**



RC-958 Receiver **Bright OLED** rotating display

CR-958 **Cradle for** Receiver

For use with extension pole for ceilings and flooring

Kit Components

Kit Contents	61-954	61-956	61-958
Transmitter	TR-958	TR-958	TR-958
Receiver	RC-954	RC-958	RC-958
Tracer Test Lead Set	TL-956	TL-956	TL-956
Inductive Clamp			IC-958
Battery Pack			BP-958
Magnetic Hanging Strap			61-565
Hard Carrying Case	C-954	C-954	C-958
Batteries	•	•	•
Instruction Manual	•	•	•

Circuit Tracer Specifications		
TRANSMITTER:		
OPERATING VOLTAGE	0 - 600V AC/DC	
BATTERY POWER	1.5V x (4) AA batteries (NEDA 15A, IEC LR6)	
BATTERY LIFE	40 hours open circuit testing/25 hours short circuit tracing	
INDICATORS	On/Off, Line energized, low battery	
RECEIVER:		
SENSING	Magnetic	
BATTERY POWER	1.5V x (3) AA batteries (NEDA 15A, IEC LR6)	
BATTERY LIFE	20 hours	





Accessories	y
Includes	
Fuse – High-energy, Fast-acting, 1A/1000V	F-956
Magnetic Strap	61-565
Tracer Test Lead Set (includes 1-6 below)	TL-956
1. Outlet Plug Adapter for Transmitter	TL0P-956
2. Blade Prongs for Lead Adapters (2/set)	TLBP-956
3. Ground Prong for Lead Adapter	TLGP-956
4. Alligator Clips for Lead Adapters (2/set)	TLAC-956
5. 3 ft. Lead Adapters for Transmitter (2/set)	TLA1-956
6. 25 ft. Lead Adapter for Transmitter	TLA2-956
Optional	
Cradle for Receiver	CR-958





Features

- Auto ranging
- Auto power off
- Hard case included
- 2-year warranty



61-920

Ground Resistance Clamp Meter

Large clamp size*, backlight, saves up to 99 measurements





Earth Ground Resistance Tester 2- & 3-point fall of potential methods, lead set (TL-796) included





TL-796

Earth Resistance Lead Set Kit

Kit includes three test leads with alligator clips (5, 33, 33m) on reels, (2) auxiliary grounding spikes

Specifications	61-920		61-796	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
GROUND RESISTANCE	0/120/1200 Ω	1.5%	20.00/200.0/2000 Ω	2.0%
GROUND LEAKAGE CURRENT	100m/1000m/15/30 A	2.0%	_	_

^{*}Clamp accomodates conductor size up to 1.25 in. (32mm).





Insulation Tester

Features



- Checks new installations for proper insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty



61-795

Hand-held Insulation Tester Test voltage: 250/500/1000V, test inhibition >25V, default voltmeter to 600V AC/DC, digital display with analog arc, auto discharge, auto power off, auto ranging, protective rubber boot protective rubber boot, continuity, low battery indication, Cat IV – 600V, includes carrying case

Accessories

Includes	
Test Leads	TL-795
Carrying Case	C-795

Specifications	61-795	
	RANGE & RESOLUTION	ACCURACY
TEST VOLTAGE	250/500/1000 V	_
INSULATION RESISTANCE	0-4.000/40.00/400.0/4000 M Ω	2.0%
CONTINUITY	0.01-20.00 Ω	2.0%
RESISTANCE	0-200.0 Ω	2.0%
AC VOLTAGE	0-600.0 V	0.8%
DC VOLTAGE	0-600.0 V	0.5%













3-Phase Power Analyzer (800 Series)

Features



- True RMS
- Single- or three-phase measurements
- Data logging (1MB memory)
- Up to one month of recording time
- 4-channels for voltage measurements
- 4-channels for current measurements*
- Auto ranging
- Min/max/avg.
- Energy and Harmonics Program
- PowerVision™ Software
- Lightweight, portable design
- Easy-to-use push-button operation
- Backlit display*
- Customized data collection
- Optional FIFO memory
- Real-time clock
- Programmable trigger-points and start/stop time
- Intelligent battery charging system
- Easy set-up
- Interactive demo CD
- 2-year warranty

POWER & ENERGY MEASUREMENTS

- Kilowatts (kW)
- Volt-amperes (VA)
- Inductive reactive power (kvarL)
- Capacitive reactive power (kvarC)
- Power factor (PF)
- Frequency
- Kilowatt hours (kWh)
- Reactive power per hour (kvarhL, kvarhC)

MINIMUM IN THE REAL PROPERTY OF THE PARTY OF

HARMONICS MEASUREMENT

- Total harmonic distortion (% THD)
- Harmonic factorization (FFT) to 51st harmonic
- * Models 806/807

The IDEAL Power Quality Analyzer is a versatile and easy-to-use tool that will give you the information you need to get the job done. The unit measures and analyzes power quality on both single-and three-phase electrical systems. Instantaneous readouts of current, voltage, power and harmonics including tables, bar graphs and even individual waveforms, make job site data interpretation easy. With a real-time clock and 1MB of memory, the Power Analyzer stores data that can be downloaded to a personal computer for in-depth analysis using PowerVision™ software.

It's everything a professional needs for monitoring and analysis in a single unit: rugged, versatile and easy to use. Models available with 3 or 4 current channels to meet your needs and budget.

Power Analyzer	Specifications 61-805, 61-806,	61-807
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	20 to 600 V (phase-neutral) 20 to 866 V (phase-phase)	0.5% 0.5%
AC CURRENT	10 to 1000 A (with supplied clamp adapters) 1.0%
ACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
REACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
POWER FACTOR	0.5 to 1.0	1.0%





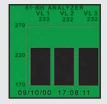
Program Setup

INST	L 1	L2	L 3	
Vp-n	235	233	237	
A	31,26	30,99	30,70	30
kW	7,376	7,247	7,299	21
kvar-L	0,729	0,667	0,768	2,
kvar-C	0	0	0	
P.F.	1,00	1,00	1,00	1
Hz	50,0			
kVA				21
kwh kvar-hL			50.159 92.640	
kvar-hC			0.029	

Table



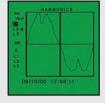
Exploded View



Bar Graph



Scope View



Waveform Zoom



Accessories

Optional	
1000AAC Clamps (set of 3)	61-811
100AAC Neutral Clamp (1)	61-813
5AAC Compact Neutral Clamp (blue)	61-814
2000AAC Clamps (set of 3)	61-810
500AAC Clamps (set of 3)	61-812
5AAC Compact Clamps (set of 3)	61-819
100AAC Compact Clamps (set of 3)	61-820
100AAC Compact Neutral Clamp (blue)	61-821
200/2000/20000AAC Flexible Clamp adapters (set of 3)	61-457
Voltage Leads with Alligator Clips	TL-806

RS-232 Interface/ **Power Supply**



200/2000/20000AAC Flexible Clamp Adapters

Standard Equipment	61-805	61-806	61-807
1000AAC Clamps (61-811)	•	•	•
100AAC Neutral Clamp (61-813)	_	optional	•
Voltage leads with Alligator Clips (TL-806)	•	•	•
Power supply with RS-232 Interface and cables	•	•	•
PowerVision™ Analysis Software	•	•	•
Demonstration CD and Instructions	•	•	•
Protective Carrying Case	•	•	•

Note:

Model 805 has 3 current channels Models 806/807 have 4 current channels Model 807 includes neutral clamp















100AAC Compact



100AAC **Current Clamp**



500AAC **Current Clamp**

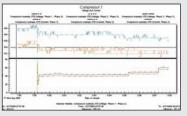


2000AAC **Current Clamp**

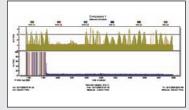
PowerVision™ Software

PowerVision™ software provides intuitive analysis of data and automatic generation of useful tables and graphs. Files are easily downloaded from any 800 series unit.

PowerVision™ provides multiple ways to view basic and detailed information, allowing you to customize readouts according to your troubleshooting needs. Compare up to 12 variables simultaneously. Easily scroll through, expand and collapse data over time. Compare data from multiple files to show before and after studies. Data can be exported to text files, databases; graphs and tables can be pasted into Excel or Word reports. Highly-trained technical support people are always a phone call away. The software can be downloaded at www.idealindustries.com



Current and Voltage



Harmonic Distortion



Voltage Performance Monitor (VPM)

Features

- Real-time TRMS voltage, frequency and harmonics monitoring
- Logs voltage, sags, swells and impulses
- Measures %THD and logs periods over 3% (line to neutral)
- Selectable thresholds based on the most accepted international standards, defaults to ITIC*
- Custom programmable event thresholds
- Invertible display, when it is necessary to plug in upside down
- 2-year warranty
- * Captures events that would affect equipment on branch circuit

Applications

Monitor voltage near sensitive equipment

- Installation and Service Technicians
- Monitor voltage at point of equipment connection
- Electricians
- Eliminate guesswork on service calls
- Building Maintenance Technicians
- Identify voltage caused equipment failures
- Equipment Manufacturers
 - Eliminate unnecessary warranty costs
- Hospital/IT Maintenance Engineers
 - Monitor voltage quality to critical equipment

Accessories

Includes	
Adapters (set of 4)	PA-830
Carrying Case	61-179
Optional	
Alligator Clip Adapters (2-wire)	TL-532A
1 ft. US Extension Cord	61-177
Kit with (1) SureTest® 61-164, (2) VPM 61-830, Soft Case C-2004	61-2003
Kit with (1) SureTest® 61-164, (4) VPM 61-830, Soft Case C-2004	61-2004

Specifications	61-830	
OPERATING RANGE	15-265V	
MEMORY	512 events	
SAMPLING METHOD	Continuous (128 samples per cycle)	
VOLTAGE ACCURACY	1%	
IMPULSE DETECTION	6µs, 4kV	
THD	FFT calculation	













SAG SWL IMP THD 129V 60.0Hz 2.3% 08:39 06-22-2006

Monitor Screen: Real-time information on voltage, voltage events and harmonics

1.0 kV 72 uS 08:43:40 08-24-06

Impulse Detail: Fast response catches positive and negative impulses up to 4kV.

Set Nominal 120V Set Standard

Set Standard: Select from more than a dozen threshold options based on existing standards or customize your own (defaults to ITIC).







See voltage through the eyes of your equipment

Poor voltage quality increases facility expenses, warranty costs and downtime plus shortens the life of equipment. The IDEAL VPM identifies only those voltage conditions that can damage equipment or cause equipment failure.

SureTest® Circuit Analyzers

Features

■ ELL estimates load on line up to 15A

Super-bright display

High accuracies

■ Measures voltage drop under load*

True RMS

- Line voltage
- Peak voltage
- Frequency
- Ground to neutral voltage
- Ground impedance
- Hot and neutral conductor impedances
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Tests GFCIs and EPDs for proper operation
- Conducts testing without disturbing sensitive loads
- Verifies isolated grounds (with 61-176 adapter)
- 2-year warranty

*12A, 15A, 20A load tests

Accessories

Includes	
Carrying Case	61-179
1' Extension Cord	61-182
Optional	
Ground Continuity Adapter	61-175
Isolated Ground Adapter	61-176
Alligator Clip Adapter	61-183

SureTest® 160 Series Specifications			
	RANGE & RESOLUTION	BASIC ACCURACY	
AC VOLTAGE	85.0 - 265.0 VAC	1.0%	
FREQUENCY	45.0 - 65.0 Hz	1.0%	
IMPEDANCE	0.00 - 1.99 Ω	5.0%	
GROUND-NEUTRAL VOLTAGE	0.0 - 24.0 VAC	2.0%	
% VOLTAGE DROP 12A, 15A, 20A load tests	0.1% - 50.0%	5.0%	
GFCI TEST CURRENT Times out after 6.5 seconds	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%	

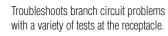














AFCI testing with alligator clips on an installed device.



Circuit Breaker Finders

Features

- Fully automatic operation
- Positively identifies circuit breakers and fuses without service interruption
- Self calibrating
- Visual and audible indicators
- 2-year warranty



61-534

Circuit Breaker Finder with Digital Receiver

Microprocessor controlled sensitivity level, verifies proper wiring, checks GFCI operation, non-contact voltage, works on 120 and 240V circuits

Specifications			
	61-532	61-534	
OPERATING VOLTAGE	100 - 140 VAC	100 - 250 VAC	
OPERATING FREQUENCY	47 - 63 Hz	47 - 63 Hz	







Accessories

Optional	
Carrying Case	C-290
Alligator Clip Adapter	TL-532A





Alligator clip adapter allows connections to exposed wiring.



Lighting adapter allows connection to light fixtures.

Mini Arc Fault Tester

Features

- Tests AFCIs for proper operation
- Tests GFCIs for proper operation
- Tests for shared neutrals
- Verifies wiring configuration
- Compact size fits comfortably in pocket
- 1-year warranty

61-059 Tester



AFCI/GFCI Circuit



TL-532 **Alligator Clip** Adapter (2-wire)

Accessories

Optional	
1' Cord Adapter	61-177
Allligator Clip Adapter (3-wire)	61-184
Allligator Clip Adapter (2-wire)	TL-532
Carrying Case with Belt Clip	C-50









E-Z Check® Circuit Testers

Features

- Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot, and ground fault interruption in 3-wire, 120VAC
- No-slip ergonomic design maximizes comfort
- Premium neon lamps prevent false readings
- Tough, impact-resistant case
- 2-year warranty





E-Z Check® Plus **GFCI Circuit Tester** Tests GFCI receptacles for proper operation









Receptacle Testers

Features

- Warns against faulty wiring in 3-wire receptacles
- For use on 120VAC circuits
- 1-year warranty



61-501 GFCI Receptacle

Tester **Tests GFCI** receptacles for proper operation





61-500 Receptacle





Vol-Con® Elite Digital Voltage Testers

Features



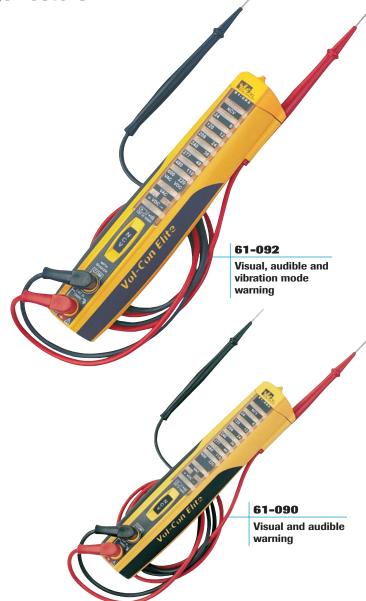
- AC/DC circuitry
- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Audible continuity
- Non-contact voltage indication
- Low impedance to eliminate ghost voltages
- Low battery indicator (40-600VAC)
- Replaceable silicone test leads
- Integral lead storage
- 2-year warranty

Accessories

Includes	
Silicone Test Leads	TL-102
Optional	
Carrying Case	C-90



Vibration mode gives a tactile indication of the voltage level.





Non-contact voltage sensor easily locates breaks in power cords.



Solenoid Voltage Testers

Features



- Extremely rugged and reliable
- Vibrates when voltage is present
- Tests for AC Voltage
- Tests for DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- 2-year warranty

Accessories

Includes	
Standard Test Leads	61-070
Optional	
Resistor-fused Leads*	61-072
Padded Nylon Case	C-90
Leather Case	61-010
Batteries	61-201

*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.







61-065

Vol-Test® Voltage Tester Tests from 100-600V AC/DC



XL-Series Solenoid Voltage Testers

Features



- Extremely rugged and reliable tester
- Vibrates when voltage is present
- Tests AC/DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator
- Dual voltage indication for backup safety
- Compact size
- 2-year warranty

Accessories

Includes	
Standard Test Leads	TL-80
Optional	
Resistor-fused Leads*	TL-82
Padded Nylon Case	C-90
Leather Case	61-010

*Special, current-limiting resistor in each lead acts as a fuse to















Split-Jaw™ Smart Meter



Includes	
Test Leads	TL-95
Optional	
Padded Nylon Case	C-90

Specifications	61-096	
AC VOLTAGE	1.3 - 750 V	1.5%
DC VOLTAGE	1.8 - 1000 V -0.6 - 1000 V	1.0%
AC CURRENT	0.6 - 200.0 A	3.0%
RESISTANCE	0 - 2000 Ω	1.0%

*Note: Jaw opening is 0.6 in. (16mm) - up to 1/0 copper cable



VoltAware™ Non-Contact Voltage Tester

Features





- Indicates presence of voltage from 40-1000VAC
- Visual indication of voltage
- Selectable audible indication of voltage
- Sleek, compact design
- Green LED indicates power on
- Low battery indicator
- Battery replacement (AAA size)
- 2-year warranty





Convenient button turns audible voltage indication on or off.

Volt-Sensor™ Non-Contact Voltage Tester

61-030

Continuity Tester

Features



- Tests for voltage from 40-600VAC
- Audible and visual indication
- Locates breaks along live insulated wires
- Tests for energized circuits
- Battery replacement (LR44/61-201)
- 1-year warranty

61-063





Volt-Sensor™ **NCV Tester** Overmolded cushion grip

Continuity Tester

Checks continuity of dead circuits and ground on conduit systems and identifies wires in multi-wire cables

Light signal indicates completed circuit

- Bulb-in end can serve as flashlight
- Pocket clip functions as probe
- Removable 4-ft. test lead with alligator clip
- 1-year warranty

Test-Glo™ Circuit Tester

Features

Industrial-quality tester checks voltage from 80V to 600V AC/DC

Neon test lamp at front of probe

Resistors reduce voltage reaching leads

■ 24-in. lead — rated 1,000V

1-year warranty

61-040 Test-Glo™ **Circuit Tester**

Twin Lead Voltage Tester

Features

- Check voltage from 80-500V AC/DC
- Heavy-duty test probes
- 1-year warranty





3-Phase/Motor Rotation Testers

Features



- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- 2-year warranty Includes carrying case

Features



- For use up to 600V
- Color-coded insulators over alligator clips
- Shock resistant housing
- Easy to read
- 2-year warranty Includes carrying case

Digital Light Meter

Features

- Wide lighting range
- Foot candle and lux measurement
- Remote light sensor
- Cosine and color corrected
- Peak hold
- Low battery indication
- 2-year warranty Includes carrying case





Specifications	61-681	
	RANGE & RESOLUTION	ACCURACY
FOOT CANDLES	20.00/200.00/2000.0/200000	2%
LUX	20.00/200.00/2000.0/200000	2%

Infrared Thermometer

Features

- Measurement range: -76°F to 932°F
- Distance spot: 12:1
- Modes: Ave., Difference, Hi/Low limits w/alarm, Max, Min, Lock
- Emissivity Range: Adjustable from 0.1 to 1
- Precision K-type thermocouple (optional)
- Backlight
- Auto power off
- Low battery indicator
- 2-year warranty



61-685

Infrared Thermometer

Accessories

 ϵ

61-521

3-Phase Sequence

and Rotation Tester

(€ № N12966

61-520

3-Phase

Sequence E N12966

Optional	
K-type Thermocouple	61-461

Specifications	61-	685			
	RANGE & RESOLUTION	ACCURACY			
TEMPERATURE OF OBJECT	-27 to 932°F (.33 to 500°C)	+/- 4°F (+/-2°C) of reading or whichever is			
AMBIENT TEMPERATURE	73 +/-5°F (23 +/-3 °C)	greater			

Current Clamp Adapters

- Provide safe, easy measurement of AC current
- Extend the current measurement capabilities of digital multimeters
- AC milli-volt output (1mVAC = 1mA)









Flexible Clamp Adapters

Features

- Provide safe, easy measurement of high AC currents
- Large opening and flexible materials to wrap around conductors and bus bars
- Shape Memory allows pre-forming before installation
- Extend the current measurement capabilities of digital multimeters





Specifications	61-330	61-331	61-332	61-333	61-334	61-436	61-451
AC CURRENT	1000 A	300/3000 A	200 A	500 A	600 A	1000 A	300 A
DC CURRENT	_	_	_	_	600 A	_	_
OUTPUT SIGNAL	1mV/A	1mV/A/10mV/A	1mV/A	1mV/A	1mV/A	1mV/A	1mV/A
MAX CONDUCTOR SIZE	8" (19cm)	8" (19cm)	0.78" (19.8mm)	1.18" (30mm)	1.125" (28.5mm)	2.25" (57.1mm)	0.91" (23mm)
SENSOR LENGTH	24" (61cm)	36" (91cm)	_	_	_	_	_

Line Splitter









Carrying Case Selection Guide

	P METER CARRYING CASE TION GUIDE	701 707	Ser 207-19	61-704 si	61-744	61-746	764 764	Ser 992-19	61-768 ³⁹	61-772	61-774
C-90	Nylon Carrying Case				•	•					
C-700	Nylon Carrying Case	•	•	•							
C-760	Carrying Case						•	•	•		
C-770	Nylon Carrying Case									•	•

		310		320 Series		340		360		490		610	
MULTIMETER CARRYING CASE Selection Guide	61-310	61-312	61-320	61-322	61-324	61-340	61-342	61-360	61-361	61-494	61-495	61-610	61-614
C-290 Nylon Carrying Case	•	•	•	•	•	•	•	•	•	•	•	•	•

		Voltage Testers								60
TESTER CARRYING CASE SELECTION GUIDE	61-059	61-065	61-076	61-085	61-086	61-090	61-092	61-096	61-164	61-165
61-010 Leather Tester Case		•	•	•	•					
61-020 Premium Leather Tester Case		•	•							
61-179 Nylon Carrying Case									•	•
C-50 Nylon Carrying Case	•									
C-90 Nylon Carrying Case		•	•	•	•	•	•	•		

Test Lead Kits



TL-435

Industrial Test Lead Kit

Kit contains: 1.5m silicone lead set, probes w/SS tips, rigid alligator clips, flex pincer clips, insulated alligator clips, insulated spade lugs and padded zipper pouch, 1000V, 10A rating



TL-436

Electrical Test Lead Kit

Kit contains: 1.5m silicone lead set, probes w/SS tips, insulated alligator clips and tri-fold pouch, 1000V, 10A

Test Leads



TLF-252

Fused test leads with alligator clips, 10A/600V, **CAT III - 1000V**





Thermocouples

Features

- Measures up to 1500° F (816° C)
- K-type thermocouple plugs into digital multimeter or clamp meter voltage ports with 61-465 adapter

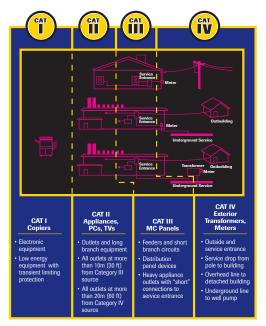




Replacement Parts Selection Guide

	REPLACEMENT SELECTION GU		61-096 😸	61-310 E 61-312 ©	61-320 Series 61-324 series	61-340 g 61-342 6	61-360 61-361 9	61-452 65	61-494 b 61-495 0	61-605 8	61-610 9 61-614 ©	201-701 201-702 201-704 61-704	710 01.2-19	61-744 ₂₄ 61-746 6	61-764 92 61-766 series 61-768	61-772 ₂₂ 61-774 0
FUSES																
F-1	0.5A (250V)	6.35 x 32mm											•			
F-102	1A (600V)	6.35 x 38mm			• •				• •							
F-103	15A (600V)	6.35 x 38mm						•	•							
F-310	250mA (250V)	5 x 20mm		•							•					
F-312	500mA (250V)	5 x 20mm		•												
F-314	10A (250V)	5 x 20mm		•												
F-340	0.5A (500V)	6.35 x 32mm				• •										
F-341	10A (1000V)	10 x 38mm				• •										
LA-3893	2A (600V)	6.35 x 25.4mm					•									
LA-3896	0.5A (500V)	6.35 x 32mm					•									
LA-3897	10A (600V)	6.35 x 25.4mm					•									
LA-3898	0.25A (500V)	5 x 32mm					•									
BATTER																
61-201	1.5V (LR44)									•						
_	1.5V (AA)				•				•		• •		•			
—	1.5V (AAA)			•										• •		
_	9V		•	•	• •		• •		• •			• • •			• • •	• •
TEST LE	ADS															
TL-34	Leads w/pin cor	nnectors									•					
TL-54	Test leads										•					
TL-95	Test leads		•													
TL-100	Test leads w/allig				• • •	• •	• •	•	• •				•	• •		
TL-102	Silicone test lea											• • •				
TL-104	Test leads w/ lar	ge alligator clip													• • •	• •
TL-310	Test leads			• •												

Safety in the Field



The power demands of today's high-tech world have caused a marked increase in occurrences and levels of transient overvoltages. The International Electrotechnical Commission (IEC) has developed a safety standards model for measurement, control and laboratory use.

Category I - The signal level for telecommunications, electronic and other low-energy equipment with transient-limiting protection. Peak impulse transient range is 600-4,000 volts with a 30 ohm source.

Category II - The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600-6,000 volts with a 12 ohm source.

Category III - The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600-8,000 volts with a 2 ohm source.

Category IV (proposed) - The primary supply level for the highest levels of transient overvoltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600-12,000 volts with less than a 1 ohm source.













LANTEK® 6/6A/7G LAN Cable Certification Testers

LANTEK offers a family of high performance cable certification testers to support a full range of LAN cable testing. The LANTEK family of certification testers uses the IDEAL patented measurement system that removes the effects of ordinary patchcords, thus making channel and permanent link certification of a cable standard such as CAT6A or ISO-F possible without changing adapters. The same patented technology also makes DUALmode Testing possible so the users can get any two test results simultaneously. As a result, the LANTEK Cable Certification Testers save you money and time on the job.



- LANTEK 7G 1GHz is the world's first independently verified Level IV accurate LAN cable certification tester capable of testing installations up to 1 GHz, exceeding the requirements for CAT6A/7/ISO-F.
- **LANTEK 6A 500MHz** is a Level IIIe verified certification tester designed to support the NEW CAT6A Standard to certify LAN cabling to support applications up to 10G Ethernet.
- LANTEK 6 350MHz is a Level III verified LAN certification tester designed to support up to CAT6/ISO-E cabling.

Features of LANTEK® Products

- High-Performance LANTEK 7G/6A/6 sweeps to 1 GHz and supports testing requirements up to CAT 6/6A/7/ISO-F and beyond
- Level IV/IIIe/III Accuracy independently verified by ETL for baseline, channel and permanent link
- **DUALmode Testing to Save Time** reports channel and permanent link test results simultaneously
- Test with Patchcords to Save Money performs CAT6A/6/5e/ISO-Ea/E/D testing with standard patchcords to achieve the lowest cost of ownership
- Largest Internal/External Memory Capacity makes record management easy
- Convenient FIBERTEK™ Accessory simultaneously tests two fibers for attenuation and length
- Innovative TRACETEK™ Accessory performs advanced fiber fault location and troubleshooting functions











DataComm Equipment

Kits Include:

PACKAGE AND ACCESSORIES	LANTEK6B Basic	LANTEK6ABAS Basic	LANTEK6APREM Premium	LANTEK6ATRV Travel	LANTEK7GBAS Basic	LANTEK7GPREM Premium	LANTEK7GTRV Travel
Soft Carrying Case	V	V	_	_	V	_	_
Deluxe Hard Shell Case	_	_	V	_	_	V	_
Airline Grade Travel Case with Wheels	_	_	_	~	_	_	~
64MB Compact-Flash Memory Card	_	_	V	~	_	~	~
Category 6 Universal Adapters & Reference Cables	~	_	_	_	_	_	_
Category 6A Universal Adapters & Reference Cables	_	~	V	~	~	~	V
Batteries	2	2	4	4	2	4	4
DUAL Bay Rapid Battery Charger	_	_	V	~	_	~	~
Headsets (2), AC Adapters (2), Hanging Straps (2), Serial Cable (1), USB Cable (1), LANTEK Reporter Software (1)	V	~	~	V	~	~	V

Note: Delivery content may vary outside of US. Please contact your local IDEAL sales office for details. The airline grade Travel Case fits in most airline overhead storage compartments.

	LANTEKC	LANTEKCA	I ANTEKZO
FEATURES	LANTEK6 Basic	LANTEK6A Premium	LANTEK7G Premium
Frequency Range	350 MHz	500 MHz	1 GHz
Supports CAT7 & ISO-F	Upgradeable	Upgradeable	V
Supports CAT6A	Upgradeable	>	>
Support CAT6/5e/3 and ISO-E/D/C	V	>	>
Accuracy Level III/IIIe (Draft)/IV (LANTEK6/6A/7G) verified by	ETL	ETL	ETL
Support DUALmode Testing to Save Time	~	>	>
Test with Patchcords to Save Money	V	>	>
Screen Display Area	Best	Best	Best
CAT6 Test Storage with Graphs	500	500	500
Standard External Compact Flash Memory	Option	64MB	64MB
USB/Serial Port	V	>	>
Copper TDR Trace	V	>	>
Fiber Loss Measurement (FIBERTEK)	Option	Option	Option
Fiber Distance to Break (TRACETEK)	Option	Option	Option
Talk over Fiber & Copper (Full Duplex)	~	~	~
Display Screen on Remote	V	/	/
Troubleshooting Tone Generator on Remote	~	~	~
External Rapid Battery Charger & Extra Batteries	Option	~	~

Other Accessories	LANTEK6/6A/7G
Soft Carry Case	3010-12-0096
Deluxe Hard Carry Case	3010-12-0092
Batteries	1219-00-1604
Serial Cable	6011-50-0031
64 MB CompactFlash Card	2112-27-0605
CompactFlash Card Reader for PC	2112-27-0604
LANTEK CAT 6/5e Channel Adapters (ea.)	0012-00-0629
LANTEK CAT 6A/6/5e Channel Adapters (ea.)	0012-00-0656
LANTEK CAT 6A/6/5e Reference Patchcords (ea.)	6011-50-0029
Talkset (2)	3010-70-0015
Dual Bay Battery Charger	0012-00-0642
LANTEK CAT 7 TERA Testing Kit	1019-00-1105
LANTEK CAT 7 NEXANS Testing Kit	1019-00-1110
Coax Testing Adapter Kit	1019-00-0343
110 Block Testing Adapter Kit	1019-00-1112
BIX Block Testing Adapter Kit	1019-00-1114
66 Block Testing Adapter Kit	1019-00-1115

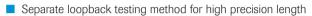




FIBERTEK™ and TRACETEK™ Advanced Fiber Test Options

Features of FIBERTEK™ Products

- Measures signal loss and length
- 850nm VCSEL light source enables Gigabit Ethernet certification on Multimode fiber
- Enables bi-directional, dual wavelength measurements
- Full duplex talkset capability
- Provides easy switching of LANTEK®
 Cable Tester between Copper and Fiber LAN testing



 Outstanding Temperature Compensation provides highly accurate test results in a wide variety of environments

FIBERTEKMMP Multimode Fiber Testing Premium Kit

All of the features of the FIBERTEKMMB plus TRACETEKMM (below):

FIBERTEKSMP Singlemode Fiber Testing Premium Kit

All of the features of the FIBERTEFKSMB Plus TRACETEKSM (below):

Features of TRACETEK™ Products

- Enables LANTEK® certification testers to provide an event trace at a fraction of the price of an OTDR
- Provides easy switching of LANTEK® certification tester between FIBERTEK™ loss and length measurement and TRACETEK™
- Includes event plots that pinpoint significant losses along the fiber
- Provided with launch cable and appropriate connectors

FIBERTEK/TRACETEK PACKAGES	FIBERTEKMMB	FIBERTEKMMP	FIBERTEKSMB	FIBERTEKSMP	FIBERTEKALLB	FIBERTEKALLP	TRACETEKMM	TRACETEKSM
FIBERTEK – 850nm MM Adapter	~	1			~	~		
FIBERTEK – 1300nm MM Adapter	~	1			~	~		
FIBERTEK – 1310nm SM Adapter			1	~	~	~		
FIBERTEK – 1550nm SM Adapter			1	~	~	~		
TRACETKEK – 1300nm MM Adapter		~				~	~	
TRACETKEK – 1310NM SM Adapter				~		~		~
Fiber Cleaning Starter Kit	~	1	~	~	~	1	~	~
62.5/50µm, MM, ST-ST Cable Kit	~	~			~	~		
62.5/50µm, MM, FC-ST/FC-SC Cable Kit		~				~	1	
9μm, SM, FC-ST Cable Kit			~	~	~	~		
9µm, SM, FC-ST/FC-SC Cable Kit				~		~		~

See your IDEAL representative for additional specifications on all certification products.

DataComm Equipment

SIGNALTEK™ Gigabit Ethernet Certifier

SIGNALTEK™ provides a technically innovative method to test and document performance of voice, data, video and VoIP applications for cabling installers and network technicians. It tests the link's ability to support applications by transmitting Ethernet packets on the wire and measuring the link performance according to IEEE 802.3ab Gigabit Ethernet standard. By monitoring transmitted and received data packets, it can report the BERT (Bit Error Rate Test) for the link. It uses the latest generation of Gigabit Ethernet technology to provide the best performance to this new class of testers.

Features of SIGNALTEK™

- **Unique** Simulate real world network traffic with full-duplex gigabit performance testing
- Unique User selectable 10/100/1000 Bit Error Rate Testing (BERT) to ensure performance for all Ethernet devices
- **Unique** Smart autotest function detects line condition and automatically chooses appropriate test to run to allow testing cable that is terminated with a SIGNALTEK remote, a network device or unterminated
- Unique Save time using the remote to perform 10/100 or gigabit service detection AND initiate an Autotest when main unit is connected
- Unique Maximum flexibility with two USB ports. Connect to a computer to upload test results, connect directly to a printer, or connect a USB memory drive for unlimited storage
- Unique Get maximum coverage with a full two-year warranty
- Unique Configure multiple target IP addresses for pinging several network devices to ensure communications with servers, printers, IP cameras, home automation controls, etc.
- Offers network interrogation tools such as link establishment, port LED blink and ping
- TDR to accurately measure length and locate shorts and opens
- ARP test discovers active network devices
- Exceeds 100m measurement distance required by IEE 802.3ab gigabit Ethernet standard
- Easy-to-read Pass/Fail performance reports that can be stored and printed for customer documentation
- Multiple BERT configurations for VoIP, data, and video-over-IP specific testing
- Brilliant high-resolution color display visible in any lighting condition
- Uses readily available AA batteries
- Wiremap faults easily with selectable 568 A/B color coding



Description	Cat. No.
SIGNALTEK™ Kit	33-974
Universal 120-240V Power Adapter	4010-00-0136
RJ-45 to 8 Head Alligator Clip	K-7920
Replacement Cable Accessory Kit - contains all original cables in SIGNALTEK™ Kit	1219-91-0003

#33-974



SIGNALTEK™ Specifications

Cable Types

- Voice/phone cable USOC/RJ-11/RJ-12 interface
- Data Cable STP/UTP (RJ-45) for CAT 3/5e/6/6a/7 cabling
- Coax cable via RJ-45 to F Patchcord, series 6, 59, 58 cabling (50/75 Ohm)

Physical Dimensions

- Display handset: 7.9" L x 3.6" W x 1.5" D Remote handset: 6.8" L x 3.5" W x 1.5" D
- Near-end Weight: 12.5 oz.

Ports/Connections

- RJ-45 test interface port
- Mini USB "A" port
- Standard USB "B" port
- DC power input for long-term network monitoring

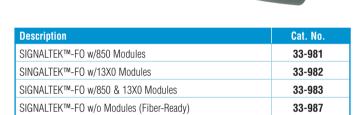


SIGNALTEK™-FO Multimedia Ethernet Certifier

SIGNALTEK-FO is the first active ethernet certifier that offers both copper and fiber optic testing; and SIGNALTEK-FO does it for less than the price of an Optical Test Set alone.

- Fiber Optic and Copper Gigabit Certification Qualify copper and fiber-optic cabling to IEEE 802.3 standards
- Multimedia Gigabit Certification (Multimode and Single Mode capability) Qualify short and long range cabling to a distance of up to 10km
- BERT and Optical Attenuation Measurements Perform Bit Error Rate Testing and decibel (dB) loss measurements of optical links.
- Dual Wavelength Capability available in both 850nm and 1300mn wavelengths to support virtually all LAN and campus fiber applications.
- Small Form factor Pluggable (SFP) modules are compact, light-weight and field changeable.
- Storage and Reporting for Thousands of Reports Store and print Qualification reports for copper and fiber jobs using internal memory or USB "thumb-drives".





10 Gigabit Alien Crosstalk Testing Kit

Perform a standard 6-around-1 cable test with PS ANEXT and PS AACR-F results for both ends of the cable in as little as 5 1/2 minutes compared to over 20 minutes for some competitive models.

- Add Alien Crosstalk testing capability to any LANTEK® 6A or 7G
- Perform PS Alien NEXT and Attenuation to Alien Crosstalk Ratio measurements
- Unique Dual-port AXT adapter allows PSANEXT testing with just one handset for quick initial site testing
- Dual-handset mode allows complete AXT certification 4 times faster than other AXT test systems
- No PC required in the field all test results calculated on-the-fly for instant pass/fail indication
- Kit includes 2 Dual-port AXT adapters, 12 AXT terminators, shielded patch cords, manual, firmware update and PC reporting software

Description	Cat. No.
Alien Crosstalk Testing Kit for LANTEK	LANTEK10GBKIT



DataComm Equipment

LED Indicators

SecuriTEST™ PRO CCTV/Security Tester

SecuriTEST™ PRO adds to the already impressive capabilities of the SecuriTEST™ by including all the features of the original, plus IRE testing (video and sync levels), audio level testing, a high-capacity lithium ion battery in a package that's smaller and lighter than before. The SecuriTEST™ PRO has all the features and functionality that CCTV technicians need to install, test and maintain analog security camera systems. SecuriTEST™ PRO also includes a custom carrying case (optional with the standard SecuriTEST™).

Features of SecuriTEST™ PRO

- All the same features of the SecuriTEST™ plus:
- **NEW** IRE video level and sync tests
- **NEW** Sound level test through integrated speaker and on screen level indicator
- **NEW** High capacity lithium ion battery
- **NEW** Support for additional PTZ protocols
- NEW Carrying case included



Description	Cat. No.
SecuriTEST™ PRO CCTV/Security Tester only	33-892
SecuriTEST™ Tester Pouch only	62-891

SecuriTEST™ CCTV/Security Tester

CCTV installers often need to carry a variety of testing tools to complete their work. SecuriTEST combines the most-needed tools in one easy-to-carry package. Since all connections (video/communications/DMM) attach to a single unit, SecuriTEST eliminates the need to juggle several devices while on a ladder or lift, making working conditions safer and increasing productivity.

- Seven Essential CCTV Tools Combines a CCTV video tester. PTZ camera controller. Digital Multi-Meter. UTP cable tester, video test pattern generator. PTZ protocol analyzer and camera programmer in a single compact package.
- Save Time & Money Test, aim, focus and program cameras when working alone. Save time by not having to walk back to the control center to verify functionality of each camera.
- Compact Design Combines all the most needed—security tools in a lightweight, easy-to-carry unit. Sharp, bright 2.5in (6.3cm) color LCD screen

with on-screen displays for PTZ control/diagnostics and DMM

readouts.

PTZ Protocol Analyzer – Compatible with 20+ PTZ protocols to test and program cameras in the field. Decodes and identifies output from PTZ console to aid in troubleshooting.



Description	Cat. No.
SecuriTEST™ CCTV/Security Tester only	33-891
SecuriTEST™ Tester Pouch only	62-891



Includes: Rechargeable batteries, AC charger, car charger, test leads, wiremap terminator, neck strap and manual



LinkMaster™ PRO and LinkMaster™ PRO XL Testers

The LinkMaster™ PRO & LinkMaster™ PRO XL Testers enable installers, contractors and maintenance technicians to map, test and troubleshoot data and voice communication cable and coax runs. Rugged, versatile, and easy-to-use, they have mastered the link between performance, simplicity and value for both commercial and residential applications.

Features

Description	LinkMaster™ PRO	LinkMaster™ PRO XL
Blinks the hub		
Displays length measurement with test results		
Remotes have both RJ-11 and RJ-45 jacks		
Backlight LCD screen		
Measures length on UTP, STP and coax		
Tests UTP for shorts, opens, miswires, reversals, split pairs and shield continuity	•	•
Test coax for opens, shorts and continuity		
Shows wiring errors		
Tests and identifies with all eight twisted pair and coax remotes	•	•
Sends tone with four different signals		
Displays test results in wire map format		
Snap-off battery cap		
9 volt battery included		

Kits

	Description	Cat. No.
	LinkMaster™ PRO XL Kit w/eight remotes	33-880
A MILLIA	LinkMaster™ PRO XL Kit w/eight remotes and Tone & Probe	33-881
Pion I	LinkMaster™ PRO XL Kit w/eight remotes – International Packaging	33-886
	LinkMaster™ PRO XL Economy Kit w/one remote	33-887
	LinkMaster™ PRO Kit w/eight remotes – Unshielded Jumper Cables	33-825
Manual Samuel Sa	LinkMaster™ PRO Kit w/eight remotes – Shielded Jumper Cables	33-826
10ÉAL	LinkMaster™ PRO Economy Kit w/one remote – Unshielded Jumper Cables	33-835
Poly	LinkMaster™ PRO Economy Kit w/one remote – Shielded Jumper Cables	33-836



Accessories

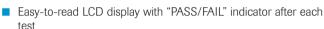
Accessories		
	Description	Cat. No.
	RJ-45 to RJ-11Jack Adapter (2/card), POP Packaging	LA-4233
	RJ-45 to F-Connector Adapter (2/card), POP Packaging	LA-4234
	LinkMaster™ Pro XL Remotes UTP/STP, 2-8 only (white carton)	LA-4235
	LinkMaster™ Pro XL Large Replacement Case	H-3412
	Security/Speaker Kit – 8-Position Modular Adapter and eight RJ-45 to Alligator Clip Lead Sets	LA-4157
9 10 10	BNC Accessory Kit	LA-4173
1111 1111	Set of Eight Color-Coded F-Terminators for LinkMaster™ Pro or Pro XL	LA-4159
	LinkMaster™ Pro Large Replacement Case	H-3324
acc.	Replacement Economy Kit Case	H-4868

DataComm Equipment

VDV MultiMedia Cable Tester

Easy-to-use tester for installers working with voice, data and video applications. One tester for all applications!

- **Voice** supports 3-pair USOC and 6-position RJ-11/12 jacks for telephone cable testing
- **Data** supports both shielded and unshielded cable testing to T568A/B
- **Video** tests coax cable for opens and shorts with F-connector interface
- Tests for opens, shorts, miswires, reversals and split pairs. Also indicates correct wiremap. Has automatic shut off (to prolong battery life) and low battery indicator.



- Tone generator supports four different tones making fault isolation
- One remote wiremap and testing unit is stored inside tester easier to keep all parts together
- Uniquely designed remote accommodates RJ-11, RJ-45 and F-style connectors

Description	Cat. No.
Kit with integrated remote and accessories	33-856

TRACETone™ Tone Generator &



Test continuity and locate signal of installed wire and cable

Two selectable tone styles

Tone Generator & Amplifier Probe fit together for easy storage

Extra-deep serrations grip wire better

RJ-11 Alligator Clip, RJ-11 Cable Assembly included

Description	Cat. No.
TRACETone™ Tester and Accessories	62-140

33-917

Also available in these kits:



Amplifier Probe and Tone Generator



Amplifier Probe

- Identifies and traces wire or cables within a group
- Battery low indicator

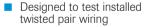
Tone Generator

- Emits three different types of tones
- Auto-off after three hours of non-use
- F-Connector port for toning & tracing coaxial CATV cabling systems
- Tone can be added in any status

Description	Cat. No.
Amplifier Probe	62-164
Tone Generator	62-160
Amplifier Probe & Tone Generator Kit - includes 62-164, 62-160, Lead Set, Cable Assembly & Standard Replacement Tip	33-864

LinkMaster™ Tester

Tests wiring configurations on UTP/STP cables. Checks for shorts, miswires, reversals and split pairs. Debug feature, automatic shut-off and low battery LED indication.



- Tests unshielded and shielded modular plugs
- Main unit and remote allow one person testing

Description	Cat. No.
LinkMaster™ Tester and Remote	62-200

Smart6™ Modular Tester

- 6-position Tester
- Incoming call identification



NEW

Description	Cat. No.
Smart6™ Modular Tester	62-096



OmniSeal™ Pro Compression Tools

The new IDEAL OmniSeal™ Compression Tools now offer additional features and increased connector compatibility in a smaller, more compact tool designed to meet the demands of the professional installer. (OmniSeal requires no accessory attachment to terminate IDEAL branded compression connectors.) Most other manufacturers compression connectors can be terminated with an easy plunger depth adjustment. The simple intuitive design combined with its size and universal connector acceptance makes this the only compression tool needed by professional installers.

- Factory preset to work with IDEAL compression connectors
- Compresses F-type, RCA, BNC and Mini connectors
- Adjustable to fit other manufacturer's connectors no accessory adapters required
- Connectors approved for use by satellite and cable TV companies

Description	Qty.	Cat. No.
OmniSeal™ Pro XL Compression Tool	1	30-793
OmniSeal™ Pro Compression Tool	1	30-603



Also available in these kits:









33-945

and connectors



OmniSeal Pro

OmniSeal Pro XL

30-793

30-603

Economy Compression Tool

- Easily compresses series 6 and 59 coax compression F-connectors
- Permanent connection never comes loose
- Works with most brands of compression connectors



Description	Cat. No.
Economy Compression Tool	30-633
Economy Compression Tool Kit - Includes four RG-6 Connectors	33-633

Crimpmaster™ Crimp Tools & Die Sets

High quality ratchet-type crimp tool for electricians, contractors and installers who require quaranteed repeatability of good mechanical and electrical connections.



Description	Cat. No.
Crimpmaster™ Crimp Tool Frame	30-506

Also available in these kits:

33-400





30-556

RJ-11 Crimp Tool for two, four or six-position modular plugs Tool w/die N/A



30-577

N-Series and RG-8/11 Connectors (Hex, 0.429 (10.90mm), 0.100 (2.54mm), 0.080 (2.03mm) Tool w/die 30-482



RG-58, RG-174 and RG-8218 for both 50 and 75 ohm cables (Hex 0.213 (5.41mm), 0.178 (4.52mm), 0.068 (1.73mm), 0.042 (1.07mm) Tool w/die N/A



30-559

RJ-45 Eight-position Crimp Tool for keyed or non-keyed modular

Tool w/die 30-522



30-578

RG-59, RG-6, and 8281 50 and 75 OHM cables (Hex. 0.324(8.23mm). 0.255 (6.48mm), 0.068 (1.73mm), 0.042 (1.07mm)

Tool w/die 30-483



30-591

Plenum and Non-Plenum Thinwire Cables RG-58 and 59 (Hex. 0.213) (5.41mm), 0.190 (4.83mm), 0.068 (1.73mm), 0.042 (1.07mm) Tool w/die N/A



30-560

RJ-45 Eight-position Crimp Tool for AMP RJ-45 modular plugs Tool w/die 30-521



22-10 AWG (.324mm² - 5.261mm²) insulated terminals/color coded nests

Tool w/die 30-500



30-593

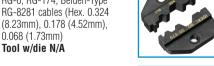
Mini UHF and BNC/TNC 5 cavity (Hex, 0.052 (1.32mm), 0.068 (1.73mm) 0.100 (2.54mm), 0.213 (5.41mm), 0.255 (6.48mm)

Tool w/die N/A



30-570

RG-6, RG-174, Belden-Type RG-8281 cables (Hex. 0.324 (8.23mm), 0.178 (4.52mm), 0.068 (1.73mm)



30-580

22-8 AWG (.3mm² - 8mm²) non-insulated terminals Tool w/die N/A



30-594

Fully Insulated quick disconnect terminals with thinner wire barrels 22-10 AWG (.324mm² - 5.261mm²) Tool w/die N/A



30-572

16-26 AWG (1.31mm² - .128mm²) miniature insulated rings, spade and butt splices

Tool w/die N/A

30-581

RG-58, RG-59/62, BNC/TNC Coax Connectors (Hex, 0.255 (6.48mm), 0.213 (5.41mm), 0.068 (1.73mm) Tool w/die 30-502



30-599

30-18 AWG (.205mm² - 2.08mm²) Open Barrel Pins and Sockets Tool w/die N/A



30-573

Cambridge CP-88, CP-89 BNC/TNC coax connectors with RG-58. RG-59/RG-62 AU cables (Hex 0.305 (7.75mm), 0.068 (1.73mm), 0.228



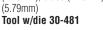
30-582

F-type CATV RG-59, RG-6 Connectors (Hex, 0.350 (8.89mm), 0.320 (8.13mm), 0.255 6.48mm) Tool w/die 30-503



30-479 (Tool w/die)

For insulated terminals, 22-10 AWG with built-in locator



RG-174, Mini 59 BNC/TNC Connectors (Hex., 0.178 (4.52mm), 0.128 (3.25mm), 0.068 (1.73mm) Tool w/die 30-485



22-12 AWG (.324mm² - 3.31mm²) Non Insulated Open Barrel Connectors, Commercial Type Tool w/die N/A









Impact Turn-Lock™ Punch Down Tools	Cat. No.
Punchmaster™ II Punch Down Tool - body only	35-483
Punchmaster™ II Punch Down Tool w/110 blade	35-485
Punchmaster™ II Punch Down Tool w/66 blade	35-487
Non-Impact Turn-Lock™ Punch Down Tools	Cat. No.
Punch Down Tool w/110 blade	35-492
Punch Down Tool w/66 blade	35-493
Economy Punch Down Tool	Cat. No.
Non-impact Tool w/permanent non-cut blade	35-185

Removable Blades*	Cat. No.
110 Turn-Lock™ blade	35-495
66 Turn-Lock blade	35-497
110/66 combo blade w/cutting edges	35-407
Krone® blade	35-478
Bix® blade	35-479

^{*}Not applicable for Economy Punch Down tool.

Bix® is a registered trademark of Nortel. Krone® is a registered trademark of Krone, Inc.

Ratchet Telemaster™

- For paired conductors
- Ratchet version of popular Telemaster™ Tool for RJ-45 and RJ-11 modular plugs
- Repeatable crimp action for consistent, high quality connections

Description	Cat. No.
Ratchet Telemaster™	30-696
Replacement Cut & Strip Blade Set for 30-696	LA-4102

Modular Plug Tool Kit

- Multi-function telephone/network tool; cuts, strips and crimps
- Steel frame construction for durability
- Interchangeable dies allow for crimping RJ-45 and RJ-11 modular plugs
- Tool-less die change for added convenience
- Spring return handle for comfort

B 10	0 1 11
Description	Cat. No.
Modular Plug Tool Kit	33-296











110 Blade 66 Blade 110/66 Blade

Krone® Blade

Bix® Blade

Also available in these kits:

33-505

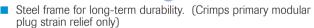






Telemaster™ Telephone Tools

- For paired conductors
- Multi-function telephone tool cuts, strips and crimps for easy one-tool application



Description	Kit Cat. No.	Tool Only Cat. No.
Tool for RJ-11 (1, 2, 3 pair) and RJ-45 (4 pair) Plugs	33-700*	30-496
Tool for RJ-45 (4 pair) & DECconnect MMJ (RJ-11, 3 pair)	N/A	30-497
Tool for RJ-11 (1, 2, 3 pair) & DECconnect MMJ (RJ-11, 3 pair)	N/A	30-498
Tool for RJ-22 (handset) and RJ-11 (1, 2, 3 pair)	N/A	30-499
Replacement Cut and Strip Blade Set for Telemaster™	N/A	LB-1747

Kit includes 10 each, RJ-45 8P8C, RJ-11 6P6C and RJ-11 6P4C modular plugs.

Also available in these kits:

33-704





Kinetic Super™ Wire Stripper/Crimper

Easily cuts and strips 22 to 24 AWG solid wire



Description	Cat. No.
Kinetic Super™ Wire Stripper/Crimper	45-719

4-Way Indent Crimp Tools

Crimp solid barrel contacts for RS232 interface connectors. Feature four-way indent dies (per MS22520 specifications), full cycle ratchet, built-in pin and

socket locator and comfort-grip handles. ■ High-grade steel construction for outstanding performance

Description	Cat. No.
20-26 AWG (.519 mm²128 mm²) RS232 D-sub Round Barrel Contacts, Pins or Sockets	35-465
16-22 AWG (1.31 mm²324 mm²) Round Barrel Contacts, Pins, Sockets and Deutsch 16 Pin Contacts	35-466
Trompeter BNC Connector Center Pins	35-468

D-Sub/Double-D Service Tool

- Exact replacement of the AMP openbarrel service tool for stamped contacts and D-Sub contacts
- Also crimps Double-D, high density, miniature contacts



Includes openings for crimping insulated terminals and cutters for machine screws

Description	Cat. No.
D-Sub/Double-D Service Tool	30-426

Coax Strip and Crimp Tool

- Precision, form-ground stripping holes remove outer jacket and insulation from RG-59 and RG-6 coaxial cable
- Durable blades cut copper-coated steel conductors
- Three crimping nests for crimping F-connectors and ring terminals
- Cushioned, comfort-grip handles

Description	Cat. No.
Coax Strip & Crimp Tool	30-433
Coax Strip & Crimp Tool Kit w/ten RG-6 F-Connectors	30-433F



UTP/STP/Coaxial Cable Strippers

Adjustable blades can be set for any depth to help ensure nickfree stripping and slitting of cables



Description	Typical RG Cables	Cat. No.
Coaxial Cable Stripper, up to 1/8 in. (3.2mm) O.D	RG-174, RG-187	45-162 (Gray)
Coaxial Cable Stripper, 1/8 in. (3.2mm) to 7/32 in. (5.556mm) O.D.	RG-58,CB Mini Coax	45-163 (Blue)
Coaxial Cable Stripper, 1/4 in. (6.4mm) to 9/16 in. (14.3mm) O.D.	RG-11, RG-8	45-164 (Blue)
Cable Stripper, 3/16 in. (4.8mm) to 5/16 in. (8mm) O.D.	RG-59, UTP Cable	45-165 (Black)
Replacement Blade Set* for 45-162, 45-163, 45-165	_	L-9225
Replacement Blade Set* for 45-164	_	L-9226

^{*}A set of blades consists of three straight blades and one round blade.

Multi-Strip Coax/UTP Cable Stripper

- Strips UTP, RG-59 and RG-6 coax cable
- Provides a 1/4 in. (minimum) x 1/4 in. strip on coax
- Spare cartridge compartment provided
- Push-on ring for easy connector termination

OOTHOOLOF COTTIINACION		
	Description	Cat. No.
	Coax/UTP Cable Stripper	45-603
	RG-6/59 Replacement Cartridge	LB-2726
	RG-7/11 Replacement Cartridge	LB-2728
	UTP Replacement Cartridge	LB-2727

Coax Stripmaster® Wire Strippers

- Provides precision stripping with easy spring cushion grip
- Knife-type blades feature multiple hole diameters sized for two step removal of outer jacket insulation and center conductor

			13
Description	Coax Cable Type (RGU)	Repl. Blade Cat. No.	Cat. No.
Coax Stripmaster® for RG-6	RG-6	LB-740	45-262
Coax Stripmaster® for RG-59	RG-59	LB-743	45-265
Coax Stripmaster® for RG-6 Quad Shield	RG-6 Quad Shield	LA-3953	45-282

Mini Coax Stripper

- Adjustable stripper for mini coax cable
- Provides a 1/4 in. x 1/4 in. strip

Description	Cat. No.
Mini Coax Stripper	45-529

RG-11 Coax Strippers

- RG-11 45-011 Coax Stripper for use with IDEAL RG-11 push-on connectors, provides a 1/4 in. x 1/8 in. strip
- RG-11 45-111 Coax Stripper for use with IDEAL RG-11 compression connectors, provides 1/4 in. x 1/4 in. strip

Description	Cat. No.
RG-11 Coax Stripper for Push-On Connectors	45-011
RG-11 Coax Stripper for Compression Connectors	45-111



45-111

Coax Cable Stripper

For RG-6, RG-6 Quad and RG-59

No adjustment required

Strips center conductor and cable jacket

Description		Cat. No.
Coax Cable Strip	per	45-320
Coax Connector I	Kit w/four Push-On F-Connectors	33-320

Toggle® Coax Strippers

Toggle® Tools for stripping Ethernet, Thinnet, RG-62 or RG-59 coax cable and other cable sizes

Description	Cat. No.
Coax Stripper for RG-8/11U	45-510
Coax Stripper for RG-6	45-513

UTP Cable Stripper

- Strips Cat 3, 5, 5e & 6 cables
- One-step stripping

Description	Cat. No.
UTP Cable Stripper	45-167

Cyclops® Data Cable Stripper

Fast, easy removal of outer sheath insulations (PVC and Plenum types, UTP & STP)

Description		Cat. No.
Data Cable Stripper for unshielded and shielded	twisted pair cable	45-514

Round Cable Slitting and Ringing Tool

- Cuts around cable jacket as well as slits the length of jacket for easy removal
- Use with single or multiple conductor cable up to 1.75 in. O.D.
- Blade adjusts for jacket thicknesses up to .125 in.
- Spare blade in handle base

Description	Cat. No.
Round Cable Slitting and Ringing Tool	45-144
Replacement Blades for 45-144 (2/pkg.)	LB-1748

Simplex/Duplex 3mm **Jacket Stripper** Fiber Optic Jacket Stripper

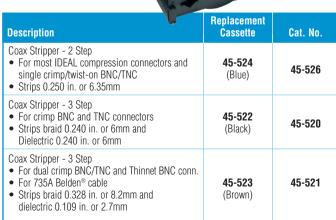
- Designed to remove the jacket from 3mm Simplex or Duplex (zip cord) fiber optic cable
- Form-ground, knife-type blades for accurate easy stripping without damaging the fiber or Kevlar® strength member
- Contoured, comfort-grip handles to reduce operator fatigue

Description	Cat. No.
Simplex/Duplex 3mm Jacket Stripper	45-349

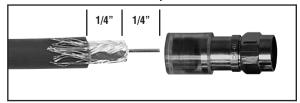
Note: Kevlar® is a registered trademark of DuPont.

Coax Strippers

Specific adjustments needed for each cable size



1/4 in. x 1/4 in. standard strip.







- Cuts round communication cable and maintains cable geometry for better cable performance
- Cuts multi-pair cable up to .500 in. (12.7mm) and coaxial cable up to RG-9/U
- Suitable for soft cables (not ACSR)
- Steel reinforced center conductors can be trimmed with bolt cutting
- Locking latch keeps tool closed in pouch
- Data T®-Cutter II designed for RG-59 and RG-6 coaxial cable

Description	Cat. No.
Data T®-Cutter	45-074
Data T®-Cutter II	45-075



- Designed for use in telephone and electrical service applications
- Cut up to 16 AWG solid and 12 AWG stranded wire
- Serrated surface on back blade edge cleans wire
- Electrician's Scissors with stripping notches strip 19 and 23 AWG wire

Description	Cat. No.
Electrician's Scissors w/stripping notches	35-088
Electrician's Scissors	35-089
Cable Splicing Knife and Leather Holder	35-091
Leather Knife Holder Only	35-092
Cable Splicing Kit (Scissors, Splicing Knife, Leather Holder)	35-093
Leather Holder only for Scissors and Knife	35-094

Lever™ -Snips Electrician's Scissors with Stripping Notches

- Ergonomic design gives added leverage
- Spring-action, mechanical advantage increases stripping leverage and reduces operator fatigue
- Double plated for added rust protection
- Extra-deep serrations grip wire better

Description	Cat. No.
Electrician's Scissors with Stripping Notches	35-087

Also available in these kits:

33-917



33-623



Economy Round Cable and Wire Cutter

- Cuts multi-conductor cable up to .500 in. (12.7mm) and solid or stranded wire up to #8 AWG (10mm^2)
- Built-in return spring, locking latch
- Stamped, hardened steel frame with curved cutting blades

Description	Cat. No.
Multi Conductor Cable to .500 in. (12.7mm) Solid or Stranded	35-051

Center Conductor Cutter

Trims coax center conductor to 3/16 in. (4.8 mm) length for proper installation into a dual crimp coax connector.



Description	Cat. No.
Center Conductor Cutter	35-060

Surge Suppression Cable Splitters

4-Way Digital Surge Suppression Cable Splitters withstand a one-time surge up to 6KV on cable line

- Bandwidth: 5 MHz 1 GHz
- Impedance: 75 ohm
- Over 130 dB of RFI Shielding
- Low 8 db Insertion Loss
- PCB Printed Circuit Board Design
- Nickel Plated Housing
- Splits signals up to 4 outlets

Description	Cat. No.
2-Way Surge Suppression Splitter	85-135
4-Way Surge Suppression Splitter	85-137



Terminators (85-038) needed for all unused ports for optimal performance

Grounding Blocks



- Solid zinc alloy, nickel plated and chromate finished
- High Performance beryllium copper contact
- Excellent electrical performance 0 3,000 MHz
- Dual grounding holes can accept up to #6 wire
- UL/CSA approved

85-313

Description	Qty.	Cat. No.
3 GHz Double Grounding Block	1/card	85-311
3 GHz Quad-Square Grounding Block	1/card	85-313

Satellite and Digital TV Splitters







- 85-334
- Designed for easy mounting over cable
- All ports are F female connectors, 75Ω
- Two grounding screws eliminate the need for grounding block
- Single port power pass

Description	Qty.	Cat. No.
2-Way, 5MHz - 2.3GHz	1	85-332
3-Way, 5MHz - 2.3GHz	1	85-333
4-Way, 5HMz - 2.3GHz	1	85-334

Diplexer, 2.3 GHz

- Combine or split cable/antenna signals with satellite signals
- High quality PCB design
- Nickel-plated die-cast zinc housing

Grounding hole for up to 6 AWG wire	and the second
Description	Cat. No.
Diplexer, 2.3 GHz, SATV/TV Combiner Splitter - 2 Amp	85-323



Description	Quantity	Cat. No.
CATV Cable Splitter, 5-900 MHz, 2-Way	Card of 1	85-032
CATV Cable Splitter, 5-900 MHz, 3-Way	Card of 1	85-033
CATV Cable Splitter, 5-900 MHz, 4-Way	Card of 1	85-034
High Performance Cable Splitter,	Card of 1	85-132
5MHz-1GHz 2-Way	Box of 10	86-132
High Performance Cable Splitter,	Card of 1	85-133
5MHz-1GHz 3-Way	Box of 10	86-133
High Performance Cable Splitter,	Card of 1	85-134
5MHz-1GHz 4-Way	Box of 10	86-134

Digital Cable Splitter

- Nickel-plated housing
- High-performance impedance-balanced Printed Circuit Board design
- Bandwidth: 5MHz 1 GHz Impedance: 75 Ohm; over 120 dB of RFI shielding; Splits signals up to 8 outlets

Description	Cat. No.
Digital Cable Splitter, 8-Way	85-138





Compression Connectors for Every Application



Reg/Tri/Quad & Plenum F-Connectors

- Fits 60% regular, tri-shield and quad cables
- Nickel-plated, brass-construction for superior corrosion resistance
- Approved for use by satellite and cable TV companies
- Approved for indoor and outdoor use
- Use 30-603, 30-793 or 30-633 Compression Tools

RG-11 F-Connectors

- Fits 60% regular RG-11 cable
- · Nickel-plated, brass-construction for superior corrosion resistance
- Approved for use by satellite and cable TV companies
- Approved for indoor and outdoor use
- Use 30-603 or 30-793 Compression Tools





BNC Connectors

- Nickel-plated, brass-construction for superior corrosion resistance
- Moisture-inhibiting design
- Approved for indoor and outdoor use
- Use 30-793 Compression Tool
- 75 Ohm nominal impedance
- Gold-plated pin contact area

OmniCONN™ F-Connectors

- Non corrosive nickel plated brass body and polycarbonate bushing
- Delrin/Nylon adapter sleeve and o-ring provide double protection for a watertight seal
- Free spinning hex nut for ease of installation onto all 7/16 ports
- 75 ohm nominal impedance
- Bandwidth up to 3 GHZ





RCA Connectors

- Constructed of nickel plated brass and gold plated head
- 75 ohm nominal impedance
- · Bandwidth up to 3 GHZ
- Compatible with 30-603 and 30-793 Compression Tools

Mini RCA Connectors

- For use with most 21-25 AWG mini coax cable
- Body is nickel plated for outstanding corrosion resistance
- Mini RCA head is gold plated for superior contact performance
- Bandwidth is 5 MHz 3 GHz, Impedence is 75 Ohms (nominal), return loss min. -30 dB @ 3 GHz



RCA Connector

Compression Connectors

	Connector Type	Cable Type	Qty.	Cat. No.
			Card of 4	92-654
		RG-6	Card of 10	92-651
-	F	Reg/Tri/Quad	Jar of 50	92-650
			Jar of 100	92-656
			Box of 1,500	92-659
7770	_	RG-6	Jar of 50	92-660
	F	Plenum	Box of 1,500	92-669
	F	RG-59	Jar of 50	92-610
	F	Reg/Tri/Quad	Box of 1,500	92-619
F-18-0	-	DO 44	Card of 10	89-211
11 3	F	RG-11	Box of 500	89-1211
	F	DO 0	Card of 4	89-017
		RG-6	Jar of 50	89-044
	F	RG-6 Card of 4	89-018	
	Г	Quad	Jar of 50	89-045
	BNC	RG-6	Card of 15	89-048
7.3	BINC	NG-0	Jar of 35	89-5048
	BNC	RG-59	Card of 15	89-047
- A.	BING	MG-09	Jar of 35	89-5047
	RCA RG-6	Card of 10	89-582	
		KG-6	Jar of 35	89-580
	RCA	RG-59	Card of 10	89-572
	NUA	Mu-09	Jar of 35	89-570
	F	Mini	Card of 10	89-014SM
	RCA	Mini	Card of 10	89-014SMRCA

Compression Port Seals

- Used with compression F-connectors to weatherproof connector by placing onto the female port
- Made from EPDM for superior sealing

Description	Qty.	Cat. No.
Short Sleeve Compression F-Connector Port Seals	Bag of 100	89-126
Long Sleeve Compression F-Connector Port Seals	Bag of 100	89-127











33-620





Short Sleeve



F-Type Coaxial Connectors

F-Series Connectors utilize threaded couplings and cable conductors as contacts for CATV and other UHF applications.

	Connector Type	Cable Type	Termination Type	Quantity	Cat. No.	
	F		Crimp	Card of 4	84-017	
-		RG-6		Card of 10	85-037	
	'			Card of 50	85-017	
				Box of 100	86-017	
				Card of 4	84-030	
	F	RG-6 Quad	Crimp	Card of 10	85-057	
100	Г	nd-o Quau	Gillip	Card of 50	85-030	
				Box of 100 86-030 Card of 4 84-016 Card of 10 85-036		
				Card of 4 84-016	84-016	
- Control of the	F	RG-59	Crimp	Card of 10	85-036	
No. of Contract of				Card of 50 85-016	Card of 50	85-016
			Turist On	Card of 4	84-039	
Yi_i - States	F	RG-6 Twist-On		Card of 10	85-053	
64 (1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Г		IWIST-OII	Card of 50	85-039	
				Box of 100	86-039	
- 10	F	RG-59	Card of 4	RG-59 Twist-On	Card of 4	84-018
	Г	nu-39	IWIST-OII	Card of 10	85-035	
	F	N/A	N/A	Card of 10	85-031	
4 5	F	N/A	N/A	Card of 10	85-038	

Push-On F-Connectors, RG-6 & RG-59

- Tool-less design cuts, strips and pushes on to cable
- All brass nickle-plated construction
- Knurled nut for superior grip
- For indoor use

	27		
Connector Type	Cable Type	Qty.	Cat. No.
		Card of 4	85-065
F	RG-6	Jar of 50	85-165
		Box of 1,500	85-1165
		Card of 4	85-066
F	RG-6 Quad	Jar of 50	85-166
		Box of 1,500	85-1166
		Card of 4	85-067
F	RG-59	Jar of 50	85-167
		Box of 1,500	85-1167
Description	Cat. No.		
Coax Connector Kit w/ RG-6 Push-on Connector	33-320		

Push-On F-Connectors, RG-11

- Fits regular RG-11 cable
- Innovative design does not require a compression or crimp tool
- Integral pin with center conductor seizing mechanism
- Manufactured from solid brass, nickle-plated for durability
- 9/16 in. hex nut
- Use 45-011 1/4 in. x 1/8 in. Coax Stripper

Description	Qty.	Cat. No.
RG-11 Push-on F-Connector	Card of 10	85-111
RG-11 Push-on F-Connector	Box of 500	85-0111

Connector Removal Tools

- Works on compression and hex connectors
- New comfort grip handle aids in installing and removing connectors on coax cable

Description	Cat. No.
F & BNC Coax Connector Removal Tool - 8 in.	35-046
F & BNC Coax Connector Removal Tool - 12 in.	35-042
F & BNC Coax Connector Removal Tool - 16 in.	35-043



BNC Coaxial Connectors

IDEAL coaxial connectors are available in two grades. A premium specification grade features precision machined brass bodies with nickel plating. The commercial grade consists of machined diecast components with nickel plating. A variety of connectors handle different termination types, cable size, impedance rating and attachment means.

- Connector construction covers both plenum and non-plenum cable jackets
- Captive gold center contacts provide maximum conductivity and minimal resistance
- Nickel plating resists corrosion, tarnish and ensures signal quality
- Meets military specifications. MS39012 and MIL202 where applicable.
- Available in both small and bulk quantities to suit a range of application requirements

	Connector Type	Cable Type	Center Conductor	Jacket	Connector Impedance	Connector Grade	Insulation	Model	Qty.	Cat. No.	
- (1)-	BNC Plug	RG-58	20 AWG Solid	Non-		50 Ohm	Commercial	Delrin	IA-3620	Bag of 5	85-490
	DING Flug	nu-Jo	20 AWG Sullu	Plenum	30 011111	Specification	Dellilli	IA-3621	Bag of 5	85-491	
				Non-				IA-3617	Bag of 5	85-502	
			20 AWG Solid	Plenum				111 0011	Box of 100	86-502	
				Plenum	75 Ohm	Commercial		IA-3618	Bag of 5	85-512	
-	BNC Plug	RG-59		Non- Plenum	75 (11111	Commercial	Delrin	IA-3624	Bag of 5	85-513	
			22-23 AWG Solid	Plenum				IA-3626	Bag of 5	85-515	
				Non- Plenum	50 Ohm	Specification		IA-3592	Bag of 5	85-517	
3 -3%	BNC Plug	RG-6	18 AWG Solid	Non-	75 Ohm	Specification	Delrin	IA-3634	Bag of 5	85-545	
1	Bel	Belden 8281	20 AWG Solid	Plenum	73 011111	Эрсстваноп	Domin	IA-3636	Bag of 5	85-550	
	BNC Jack	RG-59	22-23 AWG Solid	Non- Plenum	75 Ohm	Specification	Teflon	IA-3638	Bag of 5	85-553	
	BNC Terminator	_	_	_	50 Ohm	Specification	Delrin	IA-3641	Bag of 5	85-556	
8	BNC Tee Adapter	_	Jack to Plug	_	50 Ohm	Commercial	rcial Delrin	IA-3667	Bag of 5	85-588	
	BNC Adapter	_	Jack to Jack	_	50 Ohm	Specification	Delrin	IA-3668	Bag of 5	85-590	
	BNC Twist-on Plug	RG-59	22-23 AWG Solid	Non- Plenum	50 Ohm	Commercial	Delrin	IA-3677	Bag of 5	85-480	



Wall Plates

Telephone Wall Plates are listed and approved by the Underwriter's Laboratories and contain 50 micro inches of gold plating on the contacts.

Telephone Wall Plates - Standard Size - (2-3/4 in. x 4-1/5 in.)

Description	Color	Qty.	Cat. No.
	Ivory	Card of 1 Box of 100	85-206 86-206
RJ-11, 2 Pair	White	Card of 1 Box of 100	85-207 86-207
	Almond	Card of 1 Box of 100	85-223 86-223
RJ-11, 2 Pair Wall Mount Plate	White	Box of 100	86-219
CATV Coax	White	Box of 100	86-201
Combo CATV/RJ-11	White	Card of 1 Box of 100	85-205 86-205

Telephone Wall Plates — Mid-Size (3-1/8 in. x 4-7/8 in.)

Description	Color	Qty.	Cat. No.
RJ-11, 2 Pair	White	Box of 100	86-237
Combo CATV/RJ11	White	Box of 100	86-236
CATV Coax	White	Box of 100	86-234





Cables

- Customizable bulk cable
- Bulk CAT 5e solid 4-pair, CMR rated, 24 AWG, 350 MHz cable
- Bulk 2-conductor in-wall, 16 AWG speaker wire

Description	Cat. No.
CAT 5e Cable - 100 ft.	85-780
In-wall Speaker Wire - 50 ft.	85-770



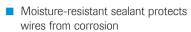




85-780

Insulation Displacement Connectors (IDC)

IDC connectors create fast splice and tap connections on solid copper wires. Designed for low voltage telecommunication cables.





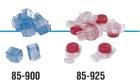


Description	Qty.	Cat. No.
UB-I, 2-Wire Tap Splice IDC	25	85-900
UR-I, 3-Wire Butt Splice IDC	25	85-925
UY-I, 2-Wire Butt Splice IDC	25	85-950
UR-I, 2-Wire Butt Splice IDC	100	86-925
UY-I, 2-Wire Butt Splice IDC	100	86-950
UB-I, 2-Wire Tap Splice IDC	1,000	87-900
UR-I, 3-Wire Butt Splice IDC	1,000	87-925
UY-I, 2-Wire Butt Splice IDC	1,000	87-950
IDC Combo Pack	25	85-960
Kinetic Super™ Wire Stripper/Crimper	1	45-719

CAT 6 Modular Plugs

- Supports CAT 6
- Unique three-piece design provides easy installation and optimal performance
- Crimps with a standard RJ-45 crimp die
- 50 micron gold contacts, 8-position, 8-contact
- Suitable for solid or stranded conductors

Description	Qty.	Cat. No.
CAT 6 Modular Plugs	25	85-366







Modular Plugs





- All plugs comply with FCC 86 guidelines and are UL Listed
- Plugs are capable of supporting the latest EIA/TIA cable system performance categories when installed in compliance with appropriate EIA/TIA standards and methods
- Plugs offered for round cable with solid conductors and for flat cable and stranded conductors
- Position and contact configurations cover popular styles

Description	Qty.	Cat. No.
	25	85-351
6-Position 4-Contact Flat Stranded	50	85-401
	100	86-401
	25	85-352
6-Position 6-Contact Flat Stranded	50	85-402
	100	86-402
4-Position 4-Contact Flat Stranded (Handset)	100	86-398
	25	85-353
8-Position 8-Contact Flat Stranded	50	85-403
	100	86-403
	25	85-344
6-Position 4-Contact Round Solid	50	85-394
	100	86-394
6-Position 6-Contact Round Solid	100	86-395
8-Position 8-Contact CAT 6 Modular Plug	25	85-366
	25	85-346
8-Position 8-Contact Round Solid	50	85-396
	100	86-396

Also available in these kits:









33-652





Economy Data and CATV Kit - 33-915

Kit Includes:

- 30-496 Telemaster™ Telephone Tool
- 30-633 Economy Compression Tool
- 35-492 Non-Impact Turn-Lock™ Tool w/110 Blade
- **35-535** Mechanics Bag
- 45-074 Data T®-Cutter
- 45-167 Economy UTP Stripper
- 45-320 Economy Coax Stripper



Basic Data and Video Kit - 33-916

Kit Includes:

- **30-793** OmniSeal™ Pro XL Compression Tool
- 33-856 VDV Multimedia Cable Tester
- 35-462 Journeyman Electrician's Tote™
- 35-485 Punchmaster™ II Punch Down Tool w/110 Blade
- 45-074 Data T®-Cutter
- 45-165 UTP Stripper
- 45-262 Stripmaster® Wire Stripper for RG-6
- **62-140** TRACETone™ Tone Generator & Amplifier Probe



Data/Video Kit - 33-917

Kit Includes:

- 30-522 Crimpmaster™ Crimp Tool for RJ-45 Modular Plugs
- **30-793** OmniSeal™ Pro XL Compression Tool
- 33-856 VDV MultiMedia Cable Tester
- 35-046 Coax Connector Tool F & BNC
- 35-088 Electrician's Scissors w/Stripping Notch
- 35-407 110/66 Blade Combo Punch Down Blade
- **35-410** Large Mouth Bag 13 in.
- 35-473 Probe Pic and Spudger
- 35-485 Punchmaster™ II Punch Down Tool w/110 Blade
- 35-908 Twist-a-Nut™ 7-in-1 Screwdriver
- 45-074 Data T®-Cutter
- 45-165 UTP Stripper
- 45-526 Coax Stripper w/Replaceable Cartridge
- 62-164 Amplifier Probe



Economy CATV Compression Kit - 33-621

- 30-633 Economy Compression Tool
- **35-402** Zipper Pouch
- 45-074 Data T®-Cutter
- 45-320 Economy Coax Stripper
- 92-654 RG-6, RG-6 Quad Compression F-Connectors, qty. 4



Residential Compression Kit - 33-625

Kit Includes:

- 30-603 OmniSeal™ Pro Compression Tool
- 35-535 Mechanic's Tool Bag
- 45-074 Data T®-Cutter
- 45-262 Coax Stripmaster® Wire Stripper for RG-6
- 92-650 RG-6 RTQ Compression Connector, 50/jar
- LA-3953 Stripmaster® RG-6 QuadShield Repl. Blade



Economy Compression Kit - 33-620

Kit Includes:

- 30-633 Economy Tool
- 45-074 Data T*-Cutter
- 45-526 Coax Stripper
- 92-610 RG-59 RTQ Compression Connectors, 50/jar
- 92-650 RG-6 RTQ Compression Connector, 50/jar



Service Compression Kit - 33-630

Kit Includes:

- 30-793 OmniSeal™ Pro XL Compression Tool
- 45-074 Data T®-Cutter
- 45-262 Coax Stripmaster® Wire Stripper for RG-6
- 89-026 Compression F-Connector Port Seals, qty. 5
- 89-057 BNC RG-6 Compression Connectors, qty. 10
- 89-058 BNC RG-59 Compression Connectors, qty. 10
- 92-650 RG-6 RTQ Compression Connector, 50/jar
- 92-660 RG-6 Plenum Compression Connector, 50/jar
- LA-3953 Replacement Blade for 45-262



RJ-45/11 Four, Six and Eight-Position Combination TelCom Termination Kit - 33-704

- 30-496 Telemaster™ for RJ-11/RJ-45 Plugs
- 85-351 4-Position, RJ-11 Stranded Modular Plugs, qty. 15
- 85-352 6-Position, RJ-11 Stranded Modular Plugs, qty. 15
- 85-353 8-Position, RJ-45 Stranded Modular Plugs, qty. 15





Economy 10Base-T Kit - 33-750

Kit Includes:

- **30-496** Telemaster™ RJ-11/RJ-45 Crimp Tool
- 45-165 UTP/Coax Stripper
- 85-346 8-Position RJ-45 Non-keyed Solid Plugs, qty. 50



Crimpmaster™ 10Base-T RJ-45 Crimping Kit - 33-652

Kit Includes:

- 30-506 Crimpmaster™ Crimp Tool Frame only
- 30-559 8-Position Die Set for RJ-45 Plugs
- 45-074 Data T®-Cutter
- 45-165 UTP/Coax Stripper
- **86-396** 8-Position RJ-45 Non-Keyed Solid Plugs, qty. 200



RG-6 Push-on Connector Kit - 33-320

Kit Includes:

- 45-320 2-Step 59 & 6 Series Stripper
- **85-065** RG-6 Push-On Connectors, qty. 4



Compression Connector Installation Kit - 33-623

- 45-074 Data T®-Cutter
- 45-320 Coax Cable Stripper
- 45-633 Economy Compression Tool
- Pouch w/belt clip



Cable Service Kit - 33-605

Kit Includes:

- **35-088** Electrician's Scissors w/Stripping Notches
- 35-462 Journeyman's Electrician's Tote™
- 35-473 Probe Pic & Spudger
- **35-485** Punchmaster™ Punch Down Tool w/110 Blade
- **35-497** 66 Blade Only
- **35-905** 5-in-1 Screwdriver
- 45-165 UTP/STP Stripper
- **62-160** Tone Generator
- 62-164 Amplifier Probe



Deluxe Cable Service Kit - 33-705

Kit Includes:

- 30-496 Telemaster™ Telephone Tool
- 35-088 Electrician's Scissors w/Stripping Notches
- 35-462 Journeyman's Electrician's Tote™
- **35-473** Probe Pic & Spudger
- **35-485** Punchmaster™ Punch Down Tool w/110 Blade
- 35-497 66 Blade Only
- **35-905** 5-in-1 Screwdriver
- 45-165 UTP/STP Stripper
- 62-160 Tone Generator
- 62-164 Amplifier Probe
- 62-200 LinkMaster™ Tester and Remote



Technician's Service Kit - 33-505

Kit Includes:

- 35-088 Electrician's Scissors w/Stripping Notches
- 35-473 Probe Pic & Spudger
- 35-485 Punchmaster™ Punch Down Tool w/110 Blade
- 35-497 66 Blade Only
- **35-908** 7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver
- 45-165 UTP/STP Stripper
- 62-205 Nylon case



Crimpmaster™ F-Type (CATV) Connectors Kit - 33-400

- 30-503 Crimpmaster™ CATV Crimp Tool
- **85-016** F-Connector, Crimp-on RG-59 Plugs, qty. 20
- 85-017 F-Connector, Crimp-on RG-6 Plugs, qty. 20





Pro Installer Kit - 33-945

Kit Includes:

- **30-427** Large Mouth Bag 18 in.
- **30-603** OmniSeal™ Compression Tool
- 30-696 Ratchet Telemaster™
- 35-046 F-Connector Tool
- **35-087** Lever™-Snips Electrician's Scissors
- **35-091** Cable Splicing Knife
- **35-205** Torpedo Level
- **35-238** Mag-Tape™ Tape Measure
- **35-275** Jab Saw
- **35-407** 110/66 Blade
- **35-420** Tongue & Groove Pliers 9-1/2 in.
- 35-473 Probe Pic and Spudger

- 35-485 Punchmaster™ II 110 Blade only
- 35-497 66 Blade only
- 35-908 7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver
- 35-3037 Smart-Grip™ Long-Nose Pliers -7-3/4 in.
- **35-3430** Smart-Grip™ Tonque & Groove Pliers – 10 in.
- 45-074 Data T®-Cutter
- 45-165 UTP/STP Stripper
- 45-526 Coax Stripper 2-Step
- **62-160** Tone Generator
- 62-164 Amplifier Probe



Coax Termination Hip Kit - 33-624

Kit Includes:

- **30-793** OmniSeal™ Pro XL Compression Tool
- 45-074 Data T®-Cutter
- 45-603 Coax/UTP Cable Stripper
- 92-651 Compression F-Connector, RG-6,10/card



RCA Compression Connector Kit - 33-635

Kit Includes:

- 30-793 OmniSeal™ Pro XL Compression Tool
- 45-074 Data T®-Cutter
- 45-603 Coax/UTP Cable Stripper
- 89-044 OmniCONN™ RG-6 Compression Connectors
- 89-572 OmniCONN™ RCA RG-59 Compression Connectors
- 89-582 OmniCONN™ RCA RG-6 Compression Connectors



Telemaster™ Crimp Kit - 33-700

- 30-496 Telemaster Tool for RJ-11 (1, 2, 3 pair) and RJ-45 Plugs
- 85-346 RJ-45 8P8C, qty. 10
- 86-395 RJ-11 6P6C, qty. 10
- 85-344 RJ-11 6P4C, qty. 10





Coaxial Selection Chart





Cable	Cutter	Stripper	Compression Tool	Compression Connector	Tester
CATV/SATV/F-type					
RG-59 Reg/Tri/Quad	45-074, 45-075	45-265, 45-603, 45-526	30-603, 30-793, 30-633	92-610, 92-619	
RG-6 Reg/Tri/Quad	45-074, 45-075	45-262, 45-603, 45-526	30-603, 30-793, 30-633	92-654, 92-651, 92-650, 92-656, 92-659	
RG-6 Plenum	45-074, 45-075	45-282, 45-603, 45-526	30-603, 30-793, 30-633	92-660, 92-669	33-856, 33-880 33-881, 33-887*
RG-11	45-074, 45-075	45-111, 45-510	30-603, 30-793	89-211, 89-1211	30 001, 30 001
Minis	45-074, 45-075	45-529, 45-163	30-603, 30-793	89-014SM, 89-014SMRCA	
BNC					
RG-59	45-074, 45-075	45-265, 45-603, 45-526	30-793	89-047, 89-5047	
RG-6	45-074, 45-075	45-265, 45-603, 45-526	30-793	89-048, 89-5048	

^{*}Need LA-4173 adapter.

Crimp Style













			_		
Cable	Cutter	Stripper	Crimping Tool	Connector	Tester
CATV/SATV/F-Type					
RG-59	45-074, 45-075	45-265, 45-603, 45-320	30-503	85-036, 85-016, 86-016	
RG-6	45-074, 45-075	45-262, 45-603, 45-320	30-503	85-037, 85-017, 86-017	
RG-6 Quad Shield	45-074, 45-075	45-282, 45-603, 45-320	30-503	85-057, 85-030, 86-030	33-856, 33-880
RG-6 Plenum	45-074, 45-075	45-282, 45-603	30-503	N/A	33-881, 33-887*
RG-11	45-074, 45-075	45-164, 45-510, 45-111	30-482	N/A	
BNC					
RG-59, Non-Plenum	45-074, 45-075	45-520	30-502, 30-483	85-513, 85-517, 85-502	
RG-6 Non-Plenum	45-074, 45-075	45-520	30-483	85-545	

^{*}Need LA-4173 adapter.



FiberMASTER™ Fiber Optic Test Kit

Measure fiber optic power in milliwatts (mW) and decibel-milliwatts (dBm) to test and troubleshoot active LANs. Quickly measure cabling loss with the automatic calibration feature that stores reference power from any light source for quick dB loss calculations. Plus, the 1490nm wavelength measurement mode is perfect for troubleshooting emerging Fiber-To-The-Home cabling systems.

- Fiber Optic Power Meter & Light Source Four wavelength power meter for multimode and single mode testing, and 850nm multimode LED light source.
- **Calibration Function** Stores reference power level for guick dB loss measurements eliminating the need to manually calculate
- Save Time and Money Power meter features 2.5mm universal and FC adapters, light source includes ST®, SC and FC adapters to test the most common interfaces.
- **Ready for FTTx** 1490nm measurement wavelength for use with nearly all single mode Fiber-To-The-Home applications.
- **Designed for the Field** Unique "docking" light source and easy three-button operation make this the perfect fiber tester for use in the field.

FiberMASTER Kit Includes:

- 33-926 Light source, 850nm LED with ST®, SC and FC adapters
- 33-927 Power meter, 4 wavelength with universal 2.5mm and fixed FC adapter
- 2x FC-SC 62.5um multimode cables
- 1 SC calbration coupler
- Carrying case
- English, Spanish, German, French, Portuguese, Italian and Chinese user's manual

Power Meter Specifications

Wavelength 850. 1300/1310. 1490. 1550nm

Detector InGaAs Measurement Range -60 to +3dBm Accuracy $\pm 5\%$ Display Resolution

Connector Universal 2.5mm w/FC adapter Power Supply AAA Alkaline Battery x 3

Operating Time 360 hours Operating Temp -10 to +60°C Storage Temp -25 to +70°C

Light Source Specifications

Wavelength 850nm LED **Output Power** -6 to -7 dBm Typical

Stability .05dB after 15min, 0.1dB over 8 hrs Connector 2.5mm w/ST®, SC, FC adapters

Power Supply AAA Alkaline Battery x 3

Operating Time 40 hours -10 to +60°C Operating Temp Storage Temp -25 to +70°C

Note: ST® is a registered trademark of AT&T.





Description	Cat. No.
Kit with integrated remote and accessories	33-928



- 100X magnification for viewing multimode connectors
- Includes 2.5mm connector "Universal Adapter" for FC. ST® and SC style connectors
- Oblique illumination provides excellent view of ferrule cleanliness and core condition
- Rugged, rubberized metal housing, precision glass optics and a built-in laser safety filter
- White LED illumination delivers 100,000 hours bulb life
- Soft padded carrying case included
- Battery life 48+ hours
- Compact size 7.5 in. x 1.96 in. x 1.18 in.
- Optional 200X Conversion Eyepiece threads on for viewing finish/ polish of singlemode connectors

Description	Cat. No.
Fiber Inspection Microscope	45-332
1.25mm Connector Adapter	45-334
MTRJ-Style Connector Adapter	45-335
200X Conversion Eyepiece for Singlemode Connectors	45-336

Note: ST® is a registered trademark of AT&T.

VFF Visual Fault Finder

Laser light source used to locate breaks, faulty splices and crimps

- **NEW** 2.5mm Universal Adapter for all ST®, SC and FC connectors
- Useful over a distance of 5km (3 miles)
- Two AA batteries provide over 30 hours of continuous use
- Slim, pocket-sized tool in rugged metal housing
- Nylon carrying case with belt loop included

Description	Cat. No.
Visual Fault Finder	VFF5

Note: ST® is a registered trademark of AT&T.

Serrated Cutter (For Kevlar®) with Breaker Notch

- Two-Step process significantly increases the life of this rugged tool
- Superior quality high-carbon stainless steel with molybdenum and vanadium provides the super-hard edges needed to stand up to the demands of today's market
- Textured cushioned-grip handles
- Value-priced for contractors, cable assembly houses, fiber installers/technicians and tool kits

Description	Cat. No.
Serrated Cutter w/Breaker Notch (Patent pending)	45-344

Note: Kevlar® is a registered trademark of DuPont.

DualScribe™ Double-Ended Fiber Optic Scribes

- Three professional quality blade styles to choose from to meet your specific needs - Ruby, Sapphire, Carbide
- Color-coded handles for quick, easy identification Red - Ruby Blue - Sapphire Black - Carbide
- 30° single bevel DualScribe™ reversible blade doubles tool life
- Soft non-slip grip provides precise control during scribing
- Clear safety cap protects the blades from damage when not in use

Description	Handle Color	Cat. No.
Ruby Blade Fiber Optic Scribe	Red	45-357
Sapphire Blade Fiber Optic Scribe	Blue	45-358
Carbide Blade Fiber Optic Scribe	Black	45-359

MiniLite-Strip™ **Optical Fiber Stripper**

- Small strip notch engineered and precision-ground to strip 900 micron or 250 micron buffer coatings from 125 micron fiber
- Larger round strip notch machined to remove the 3mm outer jacket
- Strip notches pre-set and locked, no field adjustment necessary

Description	Cat. No.
MiniLite-Strip™ Optical Fiber Stripper	45-352





Lite-Strip™ Optical Fiber Stripper

V-notch blades strip a wide range of outer cable jacket. Precision-ground, replaceable knife-type blades strip tight buffer tube insulations (900µm). Also strips mechanically strippable coatings from 250 microns to 900 microns.

- Replaceable precision-ground blades cleanly strip buffer coatings
- New funneled hole makes cable insertion easier
- Improved spring mounting returns handles to original position after every application
- One-step, 900 micron stripping hole provides broader stripping range
- Extra durable to withstand normal drops without requiring tool realignment
- New gauge color makes fiber and hole identification easier
- Improved comfort-grip handles for an easier, more comfortable stripping process

Description	Fiber Sizes	Cat. No.
Lite-Strip™ Optical Fiber Stripper (900µm/250µm)	125µm, 140µm	45-350

Stripmaster® Ribbon Fiber Jacket Stripper

 Removes jacket from Ribbon Fiber without damage to the Kevlar® strength member of the Ribbon Fiber

Note: Frame and blade-set sold separately.



Description	Cat. No.
Stripmaster® Wire Stripper Frame only	L-5620
Blade-set for use with Corning Plenum and Riser Ribbon Fiber Cable	LB-1152
Blade-set for use with Corning "Fanout" Ribbon Cable	LB-1153

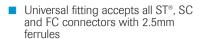
Note: Kevlar® is a registered trademark of DuPont.

Split-Tip Fiber Optic Swabs

- Split-tip design cleans fiber easier and more efficiently than other methods
- Tube/handle is pre-loaded with 99% isopropyl alcohol
- A single swab can be used for many cleanings or until the alcohol is gone

Description	Qty.	Cat. No.
Split-Tip Fiber Optic Swabs	Bag of 20	45-360

Plastic Polishing Fixture



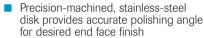
- Economically priced
- Grooved face for polishing efficiency
- Precision tool used by manufacturers, contractors and in tool kits

Description	Cat. No.
Plastic Polishing Fixture	45-342

Note: ST® is a registered trademark of AT&T.

Stainless Steel Polishing Fixture for Optical Fiber ST* and SC Type Connectors

Produces polished fiber optic ST® and SC type connectors for optimum connector performance.



- Stainless-steel hardness maintains long life and resists uneven wear
- Stepped surface reduces drag and friction for easier polishing

Description	Qty.	Cat. No.
Polishing Fixture for Optical Fiber SC/ST® Type Connectors	1	45-341

45-338

45-337

Note: ST^{\otimes} is a registered trademark of AT&T.

Polishing Films for Fiber

For optimum connector polishing results, we recommend a three-step procedure using 0.5µm, 3µm and 12µm 3 in. x 6 in. aluminum oxide polishing

Optic Connectors

 Lot-to-lot consistency in our films means repeatable connector finishes on ceramic, stainless steel, plastic and composite ferrules

A single sheet will typically yield 10 to 20 connectors when using the recommended 3-step procedure

Description	Color	Qty.	Cat. No.
0.5µm, 3" x 6", Aluminum Oxide	lvory	20 films/sleeve	45-337
3.0µm, 3" x 6", Aluminum Oxide	Lt. Yellow	20 films/sleeve	45-338
12µm, 3" x 6", Aluminum Oxide	Lt. Red	20 films/sleeve	45-339





Basic Lockout/Tagout Kit



- A great selection of the most popular lockout/tagout devices
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Basic Lockout/Tagout Kit		44-970
Kit 44-970 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal 277V Breaker Lockout/Single Pole	1	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
3/4 in. Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	5	44-849
Universal Multi-Pole Breaker Lockout	1	44-783
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Starter Lockout/Tagout Kit



- A starter selection of the lockout/tagout devices every electrician/maintenance person needs
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Starter Lockout/Tagout Kit		44-973
Kit 44-973 Includes:	Qty.	Cat. No.
Universal 277V Breaker/Single-Pole Lockout	1	44-809
Universal Multi-Pole Lockout	1	44-783
3/4 in. Shackle Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	2	44-849
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Personal Lockout Pouch Kit

Easy to carry, zippered pouch holds a worker's personal padlocks and other small devices



Description		Cat. No.
Personal Lockout Pouch Kit		44-969
Kit 44-969 Includes:	Qty.	Cat. No.
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags	12	44-833*
Red Safety Padlocks - Keyed Alike	3	44-916**
Personal Lockout Pouch	1	

^{*}Masterlock equivalent.

^{**}Keyed alike and master keyed padlocks can be special ordered by contacting IDEAL Customer

Standard Lockout/Tagout Kit



- Excellent selection of lockout/tagout devices, tags and locks for maintenance workers or contractors
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Standard Lockout/Tagout Kit		44-971
Kit 44-971 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Universal 277V Breaker Lockout/Single Pole	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
2 in. Shackle Red Padlocks	2	44-907
1 in. Safety Lockout Hasps	2	44-800
Lockout Tags – Do Not Operate	5	44-848
Lockout Tags – Do Not Operate (striped)	5	44-849
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	2	44-783
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Group Lock Box

- Helps ensure maximum security for complex work team situations
- Allows up to 13 individuals to personally lock the closed box
- Heavy-duty steel construction resists unauthorized entry and job-site abuse
- Compact 8-3/4 in. x 3-1/2 in. x 6 in. design

Description	Cat. No.
Group Lock Box	44-804

Plant Facility Lockout/Tagout Kit



- Ideal for plant facility personnel to keep all lockout/tagout devices in one convenient place
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Plant Facility Lockout/Tagout Kit		44-972
Kit 44-972 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	5	44-810
Universal 277V Breaker/Single Pole Lockout	3	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	2	44-789
110V Plug Lockout	1	44-818
1 in. Safety Lockout Hasps	3	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	3	44-783
Tool Box*	1	IA-3241

Quantities listed in kit description are for individual pieces, not carded packages. *Tool box color may vary.

Lockout/Tagout Large Mouth Bag

- Ideal for both storage and portability of your lockout/tagout needs
- Top opens completely for easy access and re-inforced to hold itself open
- Durable multi-ply construction with removable shoulder strap







Industrial Lockout/Tagout Kit



- An industrial selection of lockout/tagout devices
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Industrial Lockout/Tagout Kit		44-974
Kit 44-974 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Universal 277V Breaker/Single Pole Lockout	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
Ball Valve Lockout	1	44-820
1 in. Safety Lockout Hasp	2	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Red Lockout Padlocks	4	44-916
Universal Multi-Pole Breaker Lockout	2	44-783
Tool Box*	1	IA-3241

Quantities listed in kit description are for individual pieces, not carded packages.

Job Site Lockout/Tagout Kit



- Perfect kit for an individual worker; padlocks are keyed-alike for added worker convenience
- Excellent selection of lockout/tagout devices, tags and keyedalike padlocks for most applications

Description		Cat. No.
Job Site Lockout/Tagout Kit		44-979
Kit 44-979 Includes:	Qty.	Cat. No.
Circuit Breaker Lockout - tall and wide toggles	2	44-956
Circuit Breaker Lockout - standard single and double toggles	3	44-957
Circuit Breaker Lockout Padlock	1	
Red Lockout Padlocks	3	44-916**
1 in. Safety Lockout Hasp	1	44-800
Red Labeled Lockout	1	44-791*
Universal Wall Switch Lockout	1	44-772
Lockout Tags - Do Not Operate (striped)	12	44-833*
Tool Box	1	IA-3241*

^{*}Masterlock equivalent

Lock Stations

 Resilient polycarbonate material provides twice the heat resistance and quadruple the impact strength of typical stations



Lockable cover prevents loss
 of valuable safety products and innovative
 hinge holds cover open for easy product selection

Description	Cat. No.
Four-Lock Station (board only)	44-777
Four-Lock Station Kit includes four red Safety Padlocks (44-916), 12 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-778*
Ten-Lock Station (board only)	44-805
Ten-Lock Station Kit includes ten red Safety Padlocks (44-916), 24 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-806

^{*}Not shown.

^{*}Tool Box color may vary.

^{**}Reference part number is keyed-different, keyed-alike and master-keyed products can be special ordered by contacting IDEAL Customer Service at 800-435-0705.

Industrial Lockout/Tagout Station



- Large Lockout/Tagout Station can be wall mounted or easily transported
- All metal, lockable cabinets come with two adjustable shelves (extra shelves available)
- Lockout safety tips are conveniently located inside of door for frequent reminders of proper lockout procedures

Description		Cat. No.
Industrial Lockout/Tagout Station – 16" H x 14" W x 6" D		44-975
Kit 44-975 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Cleat for Universal Single-Pole Lockout	2	44-785
Universal Multi-Pole Breaker Lockout	2	44-783
480/600V Breaker Lockout	1	44-807
Cleat for 480/600V Breaker Lockout	1	44-786
Wall Switch Lockout	1	44-789
1 in. Safety Lockout Hasp	3	44-800
Red Safety Padlocks	4	44-916
100V Small Plug Lockout	1	44-818
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate	10	44-849
Gate Valve Lockout - 1 in. to 2-1/2 in.	1	44-824
Gate Valve Lockout - 2-1/2 in. to 5 in.	1	44-825
Ball Valve Lockout	1	44-820
Pnuematic Lockout	1	44-774
Cabinet w/two shelves	1	IA-4989
Description	Qty.	Cat. No.
Extra shelf	1	IA-4990

Lockout/Tagout Training Programs and Compliance Manuals

Lockout/Tagout Video Training Program for Employee Safety and OSHA Compliance.

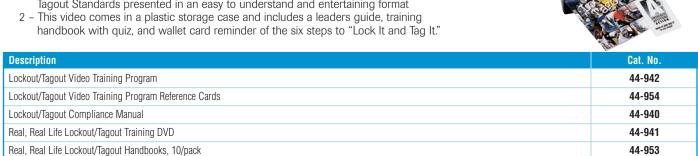
- 10-minute video effectively conveys the importance of Lockout/Tagout in the workplace.
- Demonstrates the seven steps to properly apply and five steps to re-energize from Lockout/Tagout
- Provides instructions for maintaining Lockout/Tagout during shift changes
- · Shows how to apply, remove and maintain lockout devices
- · Also suitable for employee-refresher training sessions
- Includes video, ten Lockout/Tagout Procedure Employee Reference Cards, instructor's guide and employee guiz
- Additional Employee Reference Cards also available (44-954)

Compliance Manual to assist your facility in complying with Federal Lockout/Tagout Regulations

- 1 Reviews the OSHA Standard in understandable, everyday language
- 2 Provides a step-by-step program to help you develop your "Lockout/Tagout" Compliance Program
- 3 Outlines the type of information required for employee training

The Real, Real Life Lockout/Tagout Training DVD

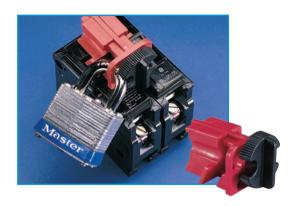
1 - Information you and your employees need to assist you in complying with OSHA's Lockout/ Tagout Standards presented in an easy to understand and entertaining format







Multi-Pole Breaker Lockout



- Works with most major multi-pole breakers with tie-bar type switches including GE, ITE Sylvania, Challenger, Bryant, Westinghouse, Square D (2/3 poles) and General Switch Co.
- Easy to install thumbscrew secures and locks tie bar in place; no cable ties or tools required
- Please see breaker guide for your application

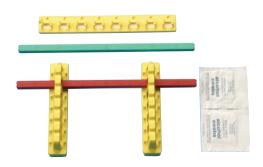
Description	Qty.	Cat. No.
Multi-Pole Breaker Lockout	1	44-783

Oversized Circuit Breaker Lockout System

- Unique Lockout system for oversized 480/600V Circuit Breakers
- System can be permanently installed into an electrical panel putting all lockout items at the point of need
- Easy installation of adhesive mounting rails - no tools required



- Pegs in mounting rails mate with holes in locking arms for security of arm when lock is in place
- Red arms lock off, green arms lock on



Description	Qty.	Cat. No.
Oversized Circuit Breaker System – 480-600 Volt	1	44-822

480/600V Single/Multi-Pole Breaker Lockout



- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew

Description	Qty.	Cat. No.
480/600V Single/Multi-Pole Breaker Lockout	1	44-807
480/600V Single/Multi-Pole Breaker Lockout	50	44-1807
Cleat for 480/600V Single/Multi-Pole Lockout	1	44-786

Large Breaker Lockout

Designed to lockout large 480/600V breaker switches up to 2-1/2 in. wide and 7/8 in. thick





Description	Qty.	Cat. No.
Large Breaker Lockout	1	44-823

Universal 120/277V Breaker Lockout



- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew

Description	Qty.	Cat. No.
Single-Pole Breaker Lockout	3	44-809
Cleat for Single-Pole Breaker Lockout	3	44-785
Single-Pole Breaker Lockout	50	44-1809

Hinged Single-Pole Breaker Lockout



- Hinged single-pole lockout with locking post design, locks lever in off position to isolate and prevent breaker use
- Ideal for applications where panel closure is preferred
- Please see breaker guide for your application

Description	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Hinged Single-Pole Breaker Lockout	100	44-1810

Circuit Breaker Lockout

- Attaches securely to breaker with simple thumb turn and clamping handle
- 44-956 is designed for breakers with wide or tall toggles
- 44-957 fits standard height and tie-bar toggles
- The narrow profile permits side-by-side breaker lockout



Description	Cat. No.
Circuit Breaker Lockout, wide & tall toggles	44-956
Circuit Breaker Lockout, standard toggles	44-957





Circuit Breaker Lockout System

- Covers most 120V 277V breakers!
- Works on wide range of breakers, including single- and multi-pole configurations
- Makes use of unique lock rail system, providing the following benefits:
 - Allows panel door to be closed even when lockouts are in place
 - Accommodates multiple locks, facilitating group lockout activity without hasps
 - Keeps weight off the breakers, protecting delicate electrical components from damage
 - Positions locks and tags outside the panel, making sure lockout activity is clearly visible to anyone in the area

Technical Information

- Lockout devices constructed of high-impact Isoplast polymers
- · Cables are 2 ft. in length
- Lock rails made of durable isoplast polymers with acrylic adhesive backing

How the System Works



 Peel liner off bottom of the lock rail, exposing superbond adhesive. Permanently affix to any location on the panel. No drilling required.



4. For group lockouts, run key through multiple loops in lock rail and apply locks. No hasps required!



2. Attach the lockout device to the breaker and snap into locked position.



 Pass plastic key through lock rail and attach lock, preventing key from sliding down cable and opening lockout device.



 Lockout device is unlocked by inserting and turning the red plastic key.



Perfect when locking out adjacent breaker lockouts.

Snap-on

For use on Square D NQO and other breakers that have a hole in the switch tongue. Just align pins with hole and snap closed. Pins prevent switch from being thrown.



Clamp-on

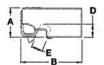
For use on breakers that do not have a hole in the switch tongue, including multiple breakers with tie bars. Turn thumbscrew to clamp lockout securely onto switch, then snap the cover closed to prevent thumbwheel from being loosened.

"No Shackle" Locks

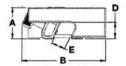
Especially useful when lockout devices will be kept at the panel in accordance with NEC regulations. Everything you need to lockout breakers is kept conveniently right at the point of need!











ı		Outer Dimensions (In.)		Switch Cle	arance (In.)	
ı	Description	Α	В	C	D	E
	Snap-On	0.90	1.88	0.74	0.40	0.35
I	Clamp-On	0.95	2.56	0.74	0.35	0.42

Description:	Qty.	Cat. No.
Snap-on lockout for Square D NQO and other breakers with a hole in the switch tongue	1	44-768
Clamp-on lockout for breakers without hole in the switch tongue, including multi-pole breakers with tie bars	1	44-764
4 in. Lock Rail with seven lock loops	1	44-769
No shackle lock	1	444.001

Miniature Circuit Breaker Lockouts

Pins Out Standard



Pins Out Wide



Pins In Standard



Tie Bar



shackle diameter up to 9/32 in.

Material: Glass-filled nylon

Description Cat. No. Qty. Pins Out Standard 1 44-779 1 44-780 Pins In Standard Pins Out Wide 1 44-784 Tie Bar 1 44-787

A safe and effective method for locking out miniature circuit breakers, commonly used in European and Asian equipment ■ Miniature Breaker Lockouts require NO TOOLS to install! The Lockout easily installs with the aid of a push button. The Tie Bar Style Lockout has a convenient thumb wheel for quick application. ■ Recommended to lock with lightweight Xenoy padlocks (see page G-20) or other padlocks, the lockouts can take padlocks with a

Wall Switch Lockouts

- Our patent pending universal Wall Switch Lockout locks out both toggle and decora wall switches
- The universal design assures switch is locked on or off. It also hinges open for unobstructed normal switch operation
- The standard wall switch lockout fits most wallmounted single or threeway electrical switches



Description	Qty./Card	Cat. No.
Universal Wall Switch Lockout	1	44-772
Standard Wall Switch Lockout (not shown)	1	44-789

Electric Plug Lockout

- Slides over cord prongs and locks in place to prevent cord from being plugged into an
- Cannot be removed without key
- Works on any 2- or 3-prong plug



Description	Cat. No.
Electric Plug Lockout	44-782

Plug Lockouts

- Accommodate a variety of electrical plug and cord sizes to prevent accidental connection or disconnection
- Durable plastic body resists wear, chemicals and job-site
- Accommodates cable ties or padlocks (with up to 3/8 in. shackles)



Description	Size	Cat. No.
Plug Lockouts – 110V	2 in. x 2 in. x 3-1/2 in.	44-818
Plug Lockouts – 220/550V	3-1/4 in. x 3-1/4 in. x 7 in.	44-819

Plug Lockouts

- Plug lockout, 44-792 works with high and low voltage plugs up to 3 in. in diameter and 5-1/2 in. in length, up to 1-1/4 in. cord diameter
- Plug lockout, 44-973 works with 110V/220V plugs up to 1-3/4 in. in diameter and 2-1/2 in. in length, up to a 1/2 in. cord diameter



Description	Cat. No.
Plug Lockout – up to 3 in. diameter	44-792
Plug Lockout – 110V/20V	44-793



Adjustable Cable Lockout

- Infinitely adjustable safety hasp and cable
- Ideal for multiple circuit breaker panels and side-by-side gate valve lockouts
- Feed the cable end through the points to be locked out, then back through the lockout body. Cinch it tight to remove any slack with the patented locking feature.
- Tough, flexible multi-stranded 6 ft. 1/4 in. dia. steel cable is insulated with a clear vinyl coating
- Tough, lightweight, dielectric Xenoy® thermoplastic body withstands chemicals; performs effectively in extreme conditions
- Up to four workers can apply their personal safety locks
- Complete with high-visibility, re-usable, write-on safety labels (English, French & Spanish). Identify the responsible person, then erase for the next job.

Description	Cat. No.
Adjustable Cable Lockout	44-808



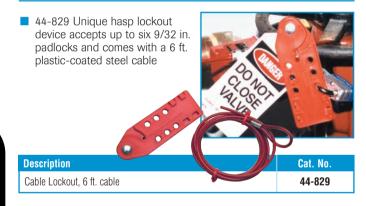
Gate Valve Lockouts

- Unique patent pending rotating design allows for easier installation in confined space applications
- Each size rotates into itself and nests within the next larger size to save space in storage
- Up to four workers can apply their personal safety locks
- Complete with high-visibility permanent safety labels (English, French & Spanish) that can be written on to identify the responsible person, then erased for the next job

Tough, lightweight, dielectric Xenoy thermoplastic bodies withstand chemicals and perform effectively in extreme conditions, temperature range: -50°F (-46°C) to +350°F (177°C)

Valve Size	Qty.	Cat. No.
1 in. to 3 in.	1	44-824
2 in. to 5 in.	1	44-825
Set of five sizes (1 in. to 13 in.)	_	44-817

Cable Lockout



Ball Valve Lockout Devices

- Best available method for locking out ball valves
- Patented design fits most major brand ball valves
- Designed to lock in off position only
- Complies with OSHA lockout standard



Valve Size (In.)	Max. Shackle Length	Material	Cat. No.
1/2 to 1-1/4	_	Polypropylene	44-846
1-1/4 to 3	_	Polypropylene	44-847
1/4 to 1 (not shown)	9/32 in.	Nylon	44-820
1-1/4 to 3 (not shown)	9/32 in.	Heavy steel	44-821

Aluminum Safety Lockout Padlocks



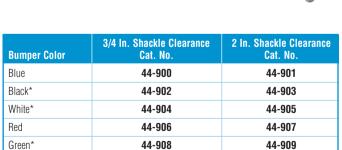
- High visibility, baked-on powder coated finish stays bright
- Ideal for corrosive and tough environments
- 1-1/16 in. shackle clearance
- 1-9/16 in. wide lock with 1/4 in. shakle clearance
- Hardened shackles for superior resistance to cutting
- Keyed alike, master-keyed, additional colors and engraving available by special order

Bumper Color	Cat. No.
Blue	44-920
Black	44-921
Red	44-922
Yellow	44-923

Steel Padlocks

Rustproofed, steel case with nickel-plated shackle withstands abuse and environmental hazards

- Includes two keys
- 1-1/2 in. wide lock with 9/32 in. shackle diameter
- Keyed-alike and Master-Keyed locks available by special order



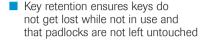
44-910

44-911

Yellow*

Xenoy Safety Lockout Padlocks w/Key Retention

- Dedicated safety lockout device reduces confusion with other locks
- Complies with OSHA's "1-key, 1-lock"
- Non-conductive, lightweight Xenoy® body



- 1-1/2 in. shackle clearance
- 1-1/2 in, wide lock with 1/4 in, shackle
- Four colors for easy identification
- Keyed alike, Master-Keyed, 2nd key, additional colors and engraving available by special order

Bumper Color	Cat. No.
Blue	44-912
Black	44-914
Red	44-916
Yellow	44-918



- Easy identification of employees' locks
- Write-on, vinyl labels with peel-off adhesive backing
- Polyester over laminate protects label

Description	Qty.	Cat. No.
Lock Labels	8 labels	44-898

Marking Pens

- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates
- Color-coded in red or black



Description	Cat. No.
Marking Pen w/black ink	41-697
Marking Pen w/red ink	41-698

^{*}Special order thru Customer Service



Heavy-Duty Lockout Tags



- High-visibility lettering
- Laminated plastic tags have non-fade legends, resist corrosive and harsh environmental conditions and a 7/8 in. grommet
- Vinyl tags are silk screened with a metal grommet; fastener included
- Exceeds OSHA's 50-lb. pullout requirement

Legend	Туре	Qty.	Cat.No.
	Heavy-Duty Laminated	Card of 5	44-830
Do Not Operate	Heavy-Duty Laminated	Box of 100	44-1830
	Economy Vinyl	Bag of 25	44-848
Do Not Operate — Maintenance Department	Economy Vinyl	Bag of 25	44-844
Do Not Operate – Electricians at Work	Heavy-Duty Laminated	Card of 5	44-832
	Economy Vinyl	Bag of 25	44-843
	Heavy-Duty Laminated	Card of 5	44-833
Do Not Operate — (red striped background)	Heavy-Duty Laminated	Box of 100	44-1833
	Economy Vinyl	Bag of 25	44-849
Do Not Operate (Photo ID - Self Sealant)	Heavy-Duty Laminated	Card of 5	44-834

Bilingual Lockout Tags

- Spanish/English tags provide extra safety and information in bilingual situations
- High-visibility lettering

DANGER

- Laminated plastic tags with non-fade legends resist corrosive and harsh environmental conditions
- Write-on tag with 7/8 in. grommet can be padlocked to device to help prevent unauthorized removal

Legend	Qty./Card	Cat. No.
Do Not Operate (striped)	5	44-841

Safety Lockout Hasps







ELIGR

DANGER

DO NOT

OPERATE

- Allow up to six workers to lock out a single energy source
- Rustproofed, plated and vinyl-coated
- Labeled hasps feature anodized aluminum alloy construction for long-term durability
- Permanent "Do Not Operate" labels accept pens, pencils and permanent markers

Safety Lockout Hasps

Jaw Diameter	Qty.	Cat. No.
1 in.	3	44-800
1 in.	50	44-1800
1-1/2 in.	2	44-801

Labeled Safety Lockout Hasps

Legend	Color	Qty.	Cat. No.
Do Not Operate	Blue	1	44-790
	Red	1	44-791
	Red	50	44-1791

Lockout Signs

Resistant to both chemicals and abrasion protected graphics for indoor and outdoor use





Legend	Material	Size (In.)	Cat. No.
OSHA Regulation 36 in. clearance	Self-sticking polyester	3-1/2 x 10	44-877
OSHA Regulation – Bilingual 36 in. clearance	Self-sticking polyester	7 x 10	44-878
Danger – Breakers Locked Out	Magnetic	5 x 7	44-890

Safety Signs

Resistant to both chemicals & abrasion protected graphics for indoor & outdoor use



Legend	Material	Size (In.)	Cat. No.
Danger – High Voltage	Fiberglass	10 x 14	44-862
Danger – High Voltage	Self-Sticking Polyester	7 x 10	44-863
Danger – High Voltage – Keep Out	Fiberglass	10 x 14	44-880
Danger – High Voltage – Keep Out	Self-Sticking Polyester	7 x 10	44-881
Danger High Voltage – Spanish	Self-Sticking Polyester	7 x 10	44-865

Flash Protection Labels and Signs

National Electric Code 110.16 Flash Protection: Switchboards, panel boards, industrial control panels and motor control centers, in other than dwelling occupancies, that are likely to require examination, adjustment, servicing or maintenance while energized, shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing or maintenance of the equipment.

> Required Labels -44-892/44-893/44-892BK



Arc Flash Labels 44-894/44-895



Recommended Signs -44-896



Description	Туре	Size	Qty./Bag	Cat. No.
NEC Arc Flash, Warning		3-1/2 in. x 5 in.	5	44-892
NEC Arc Flash, Warning		3-1/2 in. x 5 in.	100	44-892BK
NEC Arc Flash, Warning	Self-Sticking polyester	5 in. x 7 in.	5	44-893
NEC Arc Flash, Danger		5 in. x 7 in.	5	44-894
NEC Arc Flash, Danger		4 in. x 6 in.	5	44-895
NEC Arc Flash, Warning		7 in. x 10 in.	1	44-896



Detectable Underground Tapes

- Solid aluminum foil core tapes for protection, location and identification of underground utility installations
- Meets or exceeds industry standards including the American Public Works Association (APWA) color code
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink

Property	Method	Value
Thickness	ASTMD2103	5.0 Mils
Elongation	ASTMD882-75B	80%
Composition	IDEAL Specs.	Bottom layer PE Top layer PET Foil industry standard
Tensile Strength	ASTMD882	35 lbs./in. (15,000 PSI)

Legend	Color Size		Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-201
		6 in. x 1,000 ft.	42-251
Caution Buried Fiber Optic Line Below	Orange	6 in. x 1,000 ft.	42-252

Non-Detectable Underground Tapes

- For protection, location and identification of underground utility installations
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink



Property	Method	Value	
Thickness	ASTMD2103	4.0 Mils	
Elongation	ASTMD882-75B	500%	
Composition	IDEAL Specs.	LDPE	
Tensile Strength	ASTMD882	2,750 PSI	

Recommended Burial Depth

3 in. Tape - 4 in. to 6 in.

6 in. Tape - less than 12 in.

	Legend	Color	Size	Cat. No.	
Caution Buried Electric Line Below		Red	3 in. x 1,000 ft.	42-101	
			3 in. x 250 ft.	42-131	
		Yellow	3 in. x 1,000 ft.	42-102	
	Caution Buried Telephone Line Below	Orange	3 in. x 1,000 ft.	42-103	
Caution Buried Fiber Opti Line Below Caution Buried Electric Line Below	Caution Buried Fiber Optic Line Below	Orange	3 in. x 1,000 ft.	42-104	
	Caution Buried Electric	Red	6 in. x 1,000 ft.	42-151	
	Line Below	Yellow	6 in. x 1,000 ft.	42-152	

Barricade Tapes



- High-visibility safety yellow or red polyethylene construction with bold black letters
- Meets OSHA specifications Section 1010.144 for marking physical hazards

Property	Method	Value
Elongation	ASTM D88-75B	≥ 400%
Composition	IDEAL Specs.	LDPE
Tensile Strength	ASTM D882	2,350 PSI TD 1.893 PSI MD

Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-001
Caution Do Not Enter	Yellow		4.0 Mils	42-002
Caution High Voltage	Yellow		4.0 Mils	42-003
Danger	Red		4.0 Mils	42-051
Danger High Voltage Keep Out	Red		4.0 Mils	42-052

Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 250 ft.	2.0 Mils	42-031
Caution	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-011
Caution Do Not Enter	Yellow		2.0 Mils	42-012
Danger	Red		2.0 Mils	42-015

Python™ Adjustable Locking Cable

Python™ Adjustable Locking Cable secures anything within its grasp. It's the only locking cable that is always the right length for your application. This exclusive, patented product holds the flexible steel cable tight at any position for infinite possibilities.

- Infinite Locking Positions The patented lock holds the cable tight at any position from 1 ft. (30cm) to 6 ft. (1.8m)
- Application Flexibility Interchangeable cables
- Keyed Alike Convenience Rekeyable cylinder
- Cut Resistance 3/8 in. (10mm), 100% steel braided cable
- Weather Tough Rust resistant aluminum lock body
- Scratch Resistant Vinyl cable sleeve and lock body bumper

Other Applications: Bikes, lawn furniture, lawn mowers, job sites, canoes, boats, skis, snowboards, generators, pickup truck cargo, spare tire locks and much more.



Description	Cat. No.
Master Lock Python Kit with 6 ft. Cable-keyed different	44-990
Master Lock Python Kit with 6 ft. Cable-keyed alike*	44-991
12 ft. (3.7m) x 3/8 in. (10mm) Cable for Python Lock*	44-992

^{*}Special order thru Customer Service.

Pro-Series® Shackless Lock and Hasp

- Ideal for vans, trucks, gates and vending
- Defeats attempts to pry and cut
- Hardened solid steel lock body withstands forcible attacks
- Complete with high security 6-pin Pro Series® Cylinder

Description	Cat. No.
Hidden Shackle Solid Steel Padlock*	44-994
Solid Steel Hasp for use with 44-994*	44-993

^{*}Special order thru Customer Service.





Insulated Tools

The IDEAL insulated tool line creates a perfect blend of safety, comfort and precision functionality. Each tool features double insulated Santoprene® handles with a soft, easy-to-grip outer surface. In addition to the ergonomic qualities found in our tools, the insulated coating process acts as an 'at-a-glance' safety check. If the orange outer coating reveals any of the inner yellow surface, an electrician will know that this tool needs to be replaced.

Tools feature:

- First UL tested and classified insulated pliers
- Each one designed and tested to meet ASTM F1505-01. EN DIN, and IEC 60 900 test standards
- Individually tested and VDE certified to 1000V AC (1500V DC)
- Meets OSHA requirements for insulated tools





Whenever possible, always de-energize lines and equipment prior to working on or around them. 1000V insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source. Work around energized circuits should only be done when absolutely necessary and only by qualified technicians. Property damage, personal injury or death may result if the following warnings are not heeded:

- Do not use any insulated tool if the insulation cracks, breaks or becomes damaged in any way. Destroy all dual-layer tools if the inner yellow layer shows through the orange outer layer.
- Do not touch the uninsulated portion of an insulated tool or any conductive object when either might contact an energized source
- · Tools must be kept clean and dry for proper insulating properties.
- Always inspect insulated tools before use.
- · Use additional protection by wearing protective clothing and approved eye protection
- Always use tools that are specifically designed for the task.
 These tools meet UL 22PP, ASTM F1505-01 and IEC 60900 standards for insulated tools.
- Always follow OSHA 1910 S and NFPA 70E safety requirements when doing electrical work.

REGULATIONS

Testing:

• Every 1000V insulated tool we sell is individually tested to ensure no failure when subjected to live current.

UL and VDE Certification:

Listed below are some of the tests we perform in order to pass certification:

- Tools are immersed in water for 24 hours, then tested under current for 3 minutes to ensure no current leakage or sparkover occurs.
- After being stored for 168 hours at -40° C (-40° F), tools are dropped to ensure no damage from impact.
- After being stored for 168 hours at +70° C (158° F), a tensile load is applied to ensure the grip is firmly bonded to the tool.
- · Tools are subjected to flame for 10 seconds to ensure no flammability of the insulating material.

OSHA Regulations:

OSHA 1910.335(a)(2)(i) When working near exposed energized conductors or circuit parts, each employee shall use insulated tools or handling equipment if the tools or handling equipment might make contact with such conductors or parts. OSHA 1910.335 (a)(1)(i) Employees working in areas where there are potential electrical hazards shall be provided with, and shall use, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be

Make sure you are in compliance by providing and using IDEAL insulated tools!

26-Piece Journeyman Kit - #35-9302



Kit Includes:

- Four insulated pliers (9-1/4 in. Linesman w/crimper, 8 in. Offset diagonal, 8-1/2 in. Long Nose, 10 in. Tongue and Grove)
- Eight insulated screwdrivers (1/8 x 3 in. slotted, 3/16 x 5 in. slotted, 1/4 x 6 in. slotted, 5/16 x 6 in. slotted, 3/8 x 8 in. slotted, #1 x 3 Phillips, #2 x 4 in. Phillips, #3 x 6 in. Phillips)
- Six insulated nutdrivers (3/16 x 5 in., 1/4 x 5 in., 5/16 x 5 in., 3/8 x 5 in., 7/16 x 5 in., 1/2 x 5 in.)
- 9-1/2 in. insulated High-Leverage Cable Cutter
- 9-3/4 in. insulated Multi-Crimp Tool
- Insulated Reflex™ Super T®-Stripper Wire Stripper
- · Insulated Wire Stripper Cutter
- · Insulated Electrician's Skinning Knife
- Volt-Sensor® NCV Tester
- 7-1/2 in. Non-Conductive Fuse Puller
- · Heavy-Duty Soft Tool Case



18-Piece Standard Kit - #35-9301



Kit Includes:

- Four insulated pliers (9-1/4 in. Linesman w/crimper, 8 in. Offset diagonal, 8-1/2 in. Long Nose, 10 in. Tongue and Grove)
- Eight insulated screwdrivers (1/8 x 3 in. slotted, 3/16 x 5 in. slotted, 1/4 x 6 in. slotted, 5/16 x 6 in. slotted, 3/8 x 8 in. slotted, #1 x 3 Phillips, #2 x 4 in. Phillips, #3 x 6 in. Phillips)
- 9-1/2 in. Insulated High-Leverage Cable Cutter
- Insulated Reflex™ Super T®-Stripper Wire Stripper
- Insulated Electrician's Skinning Knife
- Volt-Sensor® NCV Tester
- 7-1/2 in. Non-Conductive Fuse Puller
- · Heavy-Duty Soft Tool Case



10-Piece Basic Kit - #35-9300



Kit Includes:

- Three insulated pliers (9-1/4 in. Linesman w/crimper, 8 in. Offset diagonal, 8-1/2 in. Long Nose)
- Three insulated screwdrivers ($3/16 \times 5$ in. slotted, $1/4 \times 6$ in., $#2 \times 4$ in. Phillips, $#3 \times 6$ in. Phillips)
- 9-1/2 in. Insulated High-Leverage Cable Cutter
- Insulated Reflex™ Super T®-Stripper Wire Stripper
- 7-1/2 in. Non-Conductive Fuse Puller
- Heavy-Duty Soft Tool Case





Insulated Pliers

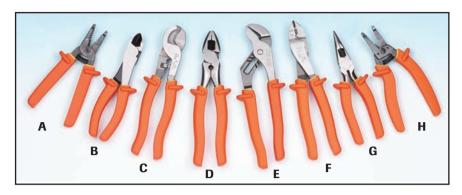


Fig.	Description	Cat. No.
Α	Premium T®-Stripper Wire Stripper	45-9120
В	8 in. Diagonal Cutting Pliers w/angled head	35-9029
С	9-1/2 in. High-Leverage Cable Cutter	35-9052
D	9-1/4 in. Side Cutting Linesman Pliers	30-9430

Fig.	Description	Cat. No.
Е	10 in. Tongue and Groove Pliers	35-9430
F	9-3/4 in. Multi-Crimp Tool	30-9429
G	8-1/2 in. Long-Nose Pliers	35-9038
Н	Reflex™ Super T®-Stripper Wire Stripper	45-9615



Description	Shaft Length	Cat. No.
#1 Phillips Screwdriver	3 in.	35-9310
#2 Phillips Screwdriver	4 in.	35-9311
#3 Phillips Screwdriver	6 in.	35-9312
1/8 in. Slotted Screwdriver	4 in.	35-9320
3/16 in. Slotted Screwdriver	5 in.	35-9321
7/32 in. Slotted Screwdriver	7 in.	35-9322
1/4 in. Slotted Screwdriver	6 in.	35-9323
5/16 in. Slotted Screwdriver	7 in.	35-9324
3/8 in. Slotted Screwdriver	8 in.	35-9325

Screwdriver Kit	Cat. No.
9-Piece Insulated Screwdriver Kit with hard case (Includes all nine screwdrivers listed above.)	35-9303

Insulated Nutdrivers

Description	Shaft Length	Cat. No.
3/16 in. Hex Nutdriver	5 in.	35-9330
1/4 in. Hex Nutdriver		35-9331
5/16 in. Hex Nutdriver		35-9332
3/8 in. Hex Nutdriver		35-9333
7/16 in. Hex Nutdriver		35-9334
1/2 in. Hex Nutdriver		35-9335
9/16 in. Hex Nutdriver		35-9336

Nutdriver Kit	Cat. No.
7-Piece Insulated Nutdriver Kit with hard case (Includes all seven Nutdrivers listed above.)	35-9304

Insulated Knife



Description	Cat. No.
Insulated Electrician's Skinning Knife	35-9340



Hard Case for Screwdriver Kit (35-9303) & Nutdriver Kit (35-9304)

35-9353

Fuse Puller and Test Light

- Convenient pocket-sized tool safely pulls cartridge fuses and checks electrical connections
- Test prods fit parallel and tandem slot receptacles
- Built-in resistors limit current flow to eliminate false indication



- For use on fuses to 100A/250V and 60A/600V
- Test capacity from 100V to 600V AC/DC

Description	Cat. No.
Fuse Puller & Test Light only	34-012

Safe-T-Grip® Fuse Pullers

- Maximum efficiency and convenience for removing or replacing cartridge-type fuses
- Three sizes handle fuses ranging from 0 to 600A
- Fully insulated, high-dielectric, glass-filled polypropylene
- Notched handles provide safe, no-slip grip
- Clearly marked amperage ranges
- Exceed MIL specifications

Description	Cat. No.
Small Puller for 250V, 9/32 in. to 1/2 in. dia. fuses; 5 in. long	34-001
Medium Puller for 0 to 100A/250V & 600V, 1/2 in. to 1 in. dia. fuses; 7-1/2 in. long	34-002
Large Puller for 31 to 600A/250V & 31 to 400A/600V, 3/4 in. to 2-1/2 in. dia. fuses; 11-3/4 in. long	34-003

Tuff-Grip™ Fish Tapes

- Large 16 in. case accommodates long tape lengths
- Large, comfortable, durable handle provides secure grip and ease of use
- Durable impact-resistant case



Description	Cat. No.	Replacement Tape Cat. No.
S-Class® Fish Tape with Leader – 200 ft.	31-064	31-155
S-Class® Fish Tape with Eyelet – 200 ft.	31-065	31-165
Zoom™ – 200 ft.	31-096	31-097

Fuse Pullers

- Molded of tough. high-impact nylon for greater strength
- No-slip gripping surface and protective finger stops for added safety



Description	Cat. No.
Small Puller for 0 to 30A/250V, 1/4 in. to 1/2 in. dia. fuses; 5 in. long	34-015
Large Puller for 0 to 100A/250V & 0 to 60A/600V, 9/16 in. to 1 in. dia. fuses; 7-1/4 in. long	34-016



- 1000V AC, 1500V DC rated per ASTM F 1505-01 and EN 60900 (IEC900)
- Contains: 1/4 in. slotted, 3/16 in. slotted, #1 Phillips, #2 Phillips and 1/4 in. nutdriver
- Accommodates most standard 1/4 in. hex bits
- Powerful magnet securely holds bits in place
- Handle will store up to eight standard bits
- Strong 6 in. non-conductive composite material shank

Description	Cat. No.
5-in-1 Non-Conductive Screwdriver/Nutdriver	35-9905
1/4 in. Slotted Replacement Bit	LA-4125
3/16 in. Slotted Replacement Bit	LA-4126
#1 Phillips Replacement Bit	LA-4127
#2 Phillips Replacement Bit	LA-4128

1000V Insulated Screw-Holding Screwdriver

- Split blade wedges into screw slot when collar is extended
- Holds screw in place when installing in hard to reach areas
- Easy to start screw when wearing gloves

Description	Cat. No.
1000V Insulated Screw Holding Screwdriver, 3/16 x 6 in. slotted Tip	35-9406



				Standa	ard Breaker L	ockouts		Circuit Brea	iker LO Sys.		Mini Circuit Br	eaker Lockou	ts
Circuit			120V	120/277V	480/600V		Multi Dala						
Circuit Breaker Mfg.	Breaker Type	# of Poles	Snap On (w/hole) 44-810	Clamp On (no hole) 44-809	Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Airpax	Airpax	1		Χ*									
Allen Bradley	1492-CB1F	1								Χ			
Allen Bradley	1492-CB2F	2								Χ			
Allen Bradley	1492-CB3F	3								Χ			
Allen Bradley	1492-CB1G	1								Χ			
Allen Bradley	1492-CB2G	2								Χ			
Allen Bradley	1492-CB3G	3								X			
Allen Bradley	1492-CB1H	1								X			
Allen Bradley	1492-CB2H 1492-CB3H	2								X			
Allen Bradley Allen Bradley	1492-CB3H 1492-CB1DF	ა 1								X			
Allen Bradley	1492-CB1DG	1								X			
Allen Bradley	1492-CB1DH	1								X			
Allen Bradley	1492-CB2DF	2								X			
Allen Bradley	1492-CB2DG	2								X			
Allen Bradley	1492-CB2DH	2								Χ			
ABB	JS	2-3			Х**								
ABB	S1	3		Χ									
ABB	S3	3			X**								
ABB	F362	2								Χ			
ABB	F364	4								Χ			
ABB	F374	4								Χ			
ABB	E221	1								Χ			
ABB	E222	2								Χ			
ABB	E241	1								Χ			
ABB	E271	1								Χ			
ABB	E242	2								Χ			
ABB	E272	2								Χ			
ABB	E243	3								X			
ABB	E273	3								X			
ABB ABB	E244 E274	4								X			
ABB	S201-B	1								X			
ABB	S201-B	2								X			
ABB	S203-B	3								X			
ABB	S204-B	4								X			
ABB	S201-C	1								Χ			
ABB	S202-C	2								Χ			
ABB	S203-C	3								Χ			
ABB	S204-C	4								Χ			
ABB	S201-D	1								Χ			
ABB	S202-D	2								Χ			
ABB	S203-D	3								Χ			
ABB	S201-K	1								Χ			
ABB	S202-K	2								Х			
ABB	S203-K	3								X			
ABB	S204-K	4								X			
ABB	S201P-K	1								X			
ABB	S202P-K	2								X			
ABB	S203P-K	3								X			
ABB ABB	S222-K S221	4								X			
ABB	\$221 \$222	1 2								X			
ABB	S222 S223	3								X			
ABB	S223 S224	4								X			
ABB	S251	1								X			
ABB	S252	2								X			
ABB	S253	3								X			
ABB	S261-B	1								X			
ABB	S262-B	2								X			
ABB	S263-B	3								Χ			
ABB	S264-B	4								Χ			
ABB	S261-C	1								Χ			

*Use with cleat #44-785

				Standa	ard Breaker L	ncknuts		Circuit Brea	iker LO Sys.		Aini Circuit Re	eaker Lockou	ts
			120V	120/277V	480/600V	OCKOUIS							
Circuit Breaker Mfg.	Breaker Type	# of Poles	Snap On (w/hole) 44-810	Clamp On (no hole) 44-809	Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
ABB	S262-C	2								Χ			
ABB	S263-C	3								Χ			
ABB	S264-C	4								Χ			
ABB	S261-D	1								Χ			
ABB	S262-D	2								Χ			
ABB	S263-D	3								Χ			
ABB	S271-K	1								Χ			
ABB	S272-K	2								Χ			
ABB	S273-K	3								Χ			
ABB	S274-K	4								Χ			
ABB	S281-K	1								Χ			
ABB	S282-K	2								Χ			
ABB	S283-K	3								Х			
ABB	S503UC-K	3										Х	
ABB	S504UC-K	4										Χ	
Cutler Hammer	BA	1	.,	X					X				
Cutler-Hammer	BAB	1	Х	Х			V		Х				
Cutler-Hammer	BAB	2-3	V	V			Χ		V				
Cutler-Hammer	BD	1	X	X					X				
Cutler-Hammer	BR	1	Χ	Χ			V		X				
Cutter-Hammer	BR	2-3 1	Х	X			Х		X				
Cutler-Hammer	BRH		X	X			V						
Cutler-Hammer Cutler-Hammer	BRH BRHH	2-3					X		X				
Cutler-Hammer	СС	2		Х*			٨		٨				
Cutler-Hammer	CH	ა 1	Χ	X				Χ	Х				
Cutler-Hammer	CH	2-3	٨	٨			Х	٨	X				
Cutler-Hammer	CHH	3		Х*			٨		٨				
Cutler-Hammer	CH2	4		٨			Х		Х				
Cutler-Hammer	CHB	1	Χ	Χ			Λ	Χ	X				
Cutler-Hammer	CHB	2-3	Х	Λ			Х	Λ	Х				
Cutler-Hammer	CHKD	2-3			Χ		Λ		Λ				
Cutler-Hammer	CHLD	2-4			Λ	Х							
Cutler-Hammer	CHMDL	2-3				X							
Cutler-Hammer	CHND	2-4			Χ**	,							
Cutler-Hammer	CHP	1	χ	χ				Χ	Χ				
Cutler-Hammer	CHP	2-3					χ		Х				
Cutler-Hammer	CHQ	1						Χ	Χ				
Cutler-Hammer	CHQ	2					χ		Х				
Cutler-Hammer	CHSW	2-3					Χ		Χ				
Cutler-Hammer	CKD	2-3			Х								
Cutler-Hammer	CL	1	Χ	Χ				Χ	χ				
Cutler-Hammer	CL	2					Χ		Χ				
Cutler-Hammer	CLD	2-4				Χ							
Cutler-Hammer	CLDC	2-4				Χ							
Cutler-Hammer	CMDL	2-3				Χ							
Cutler-Hammer	CND	2-4			X**								
Cutler-Hammer	CNDC	2-4			Χ**								
Cutler-Hammer	CSR	1		Χ					Χ				
Cutler-Hammer	DK	2-3			Χ								
Cutler-Hammer	E125B	1-4		Χ					Χ				
Cutler-Hammer	E125E	1-4		Χ					Χ				
Cutler-Hammer	E125H	1-4		Χ					Χ				
Cutler-Hammer	E125S	1-4		Χ					Χ				
Cutler-Hammer	ED	2-4		Χ					Χ				
Cutler-Hammer	EDC	2-4		Χ					χ				
Cutler-Hammer	EDH	2-4		Χ					Χ				
Cutler-Hammer	EFH	1-4		Χ					Χ				
Cutler-Hammer	EGB	1-4		Χ					Х				
Cutler-Hammer	EGE	1-4		Х					Х				
Cutler-Hammer	EGS	1-4		Х					X				
Cutler-Hammer	EHC EHD	1-4 1-4		X					X				
Cutler-Hammer		- 1 /		Χ					Х				

^{*}Use with cleat #44-785

^{**}Use with cleat #44-786



			120V	Standa 120/277V	ard Breaker L	ockouts		Circuit Brea	aker LO Sys.		Mini Circuit Br	eaker Lockou	ts
Circuit Breaker Mfg.	Breaker Type	# of Poles	Snap On (w/hole) 44-810	Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Cutler-Hammer	FB	2-3		Х					Х				
Cutler-Hammer	FC	1-4		Χ					Χ				
Cutler-Hammer	FD	1-4		Χ					Х				
Cutler-Hammer	FDB	2-4		Χ					Χ				
Cutler-Hammer	FDC	2-4		Х					Χ				
Cutler-Hammer	FS	2-3		Х					Χ				
Cutler-Hammer	GB	1-3		Х					Х				
Cutler-Hammer	GC	1-3		X					Х				
Cutler-Hammer	GD	1-3		X					X				
Cutler-Hammer	GDB	1-3		X					X				
Cutler-Hammer	GHB	1-3		X					X				
Cutler-Hammer Cutler-Hammer	GHBGFEP	1 1-3		X					X				
Cutler-Hammer	GHC HJD	2-4		٨	χ				٨				
Cutler-Hammer	HKD	2-4			Х								
Cutler-Hammer	HLD	2-4			٨	Х							
Cutler-Hammer	HMCP	2-4		Х	Х	Х							
Cutler-Hammer	HMDL	2-3		٨	٨	X							
Cutler-Hammer	HMDLB	2-3				X							
Cutler-Hammer	HMPL	3			X**	X							
Cutler-Hammer	HND	2-4			X**	,							
Cutler-Hammer	HQP	1	Χ	Χ	^				χ				
Cutler-Hammer	HQP	2					Χ						
Cutler-Hammer	PB	2-3				Χ							
Cutler-Hammer	QBGF	1		Х									
Cutler-Hammer	QBGF	2							Χ				
Cutler-Hammer	QBGFEP	1		Χ									
Cutler-Hammer	QBGFEP	2							Χ				
Cutler-Hammer	QBHGF	1		Χ									
Cutler-Hammer	QBHGFEP	1		Χ									
Cutler-Hammer	QBHW	1	Χ	Χ					Х				
Cutler-Hammer	QBHW	2-3					Χ						
Cutler-Hammer	QC	1	Χ	Х					Χ				
Cutler-Hammer	QC	2-3					Χ		Χ				
Cutler-Hammer	QCD	1	Χ	Х					Х				
Cutler-Hammer	QCD	2-3					Χ		Χ				
Cutler-Hammer	QCGF	1		X									
Cutler-Hammer	QCGFEP	1		X									
Cutler-Hammer	QCHGF	1		X									
Cutler-Hammer Cutler-Hammer	QCHGFEP QCHW	1	Х	X					V				
Cutler-Hammer Cutler-Hammer	QCHW	1 2-3	λ	Х			Х		X				
Cutler-Hammer	QHCW	2-3 1	Х	Х			Λ		Х				
Cutler-Hammer	QHCW	2-3	٨	٨			Χ		X				
Cutler-Hammer	QHCX	1	Х	Х					Х				
Cutler-Hammer	QHCX	2-3		^			Х		Х				
Cutler-Hammer	QHPW	1	Х	Х					Х				
Cutler-Hammer	QHPW	2-3	.,				Χ		.,				
Cutler-Hammer	QHPX	1	Х	Х					Х				
Cutler-Hammer	QHPX	2-3					Χ						
Cutler-Hammer	QPGF	1		Х									
Cutler-Hammer	QPGF	2							Χ				
Cutler-Hammer	QPGFEP	1		Χ									
Cutler-Hammer	QPGFEP	2							Χ				
Cutler-Hammer	QPHGF	1		Χ									
Cutler-Hammer	QPHGFEP	1		Χ									
Cutler-Hammer	QPHW	1	Х	Χ					Х				
Cutler-Hammer	QPHW	2-3					Χ						
Fed. Pacific Elec.	2B	2											
Fed. Pacific Elec.	BAB	1		Χ					Χ				
Fed. Pacific Elec.	NA-single	3			Χ**				Χ				
Fed. Pacific Elec.	NA-tie bar	2							Χ				
Fed. Pacific Elec.	NB	1		X* 4-786					Х				

*<u>Use with cleat</u> #44-785

				Standa	ard Breaker L	ockouts		Circuit Brea	aker LO Sys.		Mini Circuit Br	eaker Lock <u>ou</u>	ts
Circuit Breaker Mfg.	Breaker Type	# of Poles	120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Fed. Pacific Elec.	NBH GFI	1		Х					Х				
Fed. Pacific Elec.	NE/NEF	1-3		Χ*									
Fed. Pacific Elec.	NEJ	1-3		Χ*									
Fed. Pacific Elec.	NFJ	1-3		Χ									
Fed. Pacific Elec.	NJJ	1-3			Χ								
Fed. Pacific Elec.	NJL	1-3			Χ								
Fed. Pacific Elec.	NM	1-3			Χ								
Fed. Pacific Elec.	NP-single	1		Χ					Χ				
General Electric	V	1-3									Χ		
General Electric	EH400	3			Χ								
General Electric	HQC	3		Χ					χ				
General Electric	SED	2-3		Χ					Χ				
General Electric	SEH	2-3		Χ					Χ				
General Electric	SEL	2-3		Χ					Χ				
General Electric	SEP	2-3		Χ					Χ				
General Electric	SFH	2-3		X					Χ				
General Electric	SFL	2-3		Х					Х				
General Electric	SFP	2-3		X					X				
General Electric	SGD	2-3			Х								
General Electric	SGH	2-3			Х								
General Electric	SGL	2-3			X								
General Electric	SGLA	2-3			Х								
General Electric	SGP				X								
		2-3			X								
General Electric	SRPG	3		V*	λ				V				
General Electric	TB	2		Χ*					Х				
General Electric	TBC	2		Χ*					Х				
General Electric	TE	1-3		Χ*					X				
General Electric	TEB	1-3		Χ*					Χ				
General Electric	TED	1-3		Х*					Χ				
General Electric	TEF	1-3		Χ*					Χ				
General Electric	TEL	3		Х*					Χ				
General Electric	TEML	3		Х*					Χ				
General Electric	TEY	1-3		Χ					Χ				
General Electric	TF	1-3		Χ					Χ				
General Electric	TFC	3		Χ*					Χ				
General Electric	TFJ	2-3			Χ								
General Electric	TFK	2-3			Χ								
General Electric	TFL	3			Χ								
General Electric	THED	1-3		Χ*					Χ				
General Electric	THEF	1-3		Χ*					χ				
General Electric	THFK	2-3			Χ								
General Electric	THHQB	2-3					Χ		Χ				
General Electric	THHQB-A	1	Х	Х					Х				
General Electric	THHQB-S	1		Χ					Χ				
General Electric	THHQC	1-3					Х		Х				
General Electric	THHQC-A	1	χ	Χ					Χ				
General Electric	THHQC-S	1		X					Χ				
General Electric	THHQL	2-3					χ		X				
General Electric	THHQL-A	1	Х	Х					X				
General Electric	THHQL-S	1	,	X					X				
General Electric	THJK4	2-3			Χ**								
General Electric	THJK6	2-3			X**								
General Electric	THKM12	2-3			- 7	Х							
General Electric	THKM8	2-3				X							
General Electric	THLC1	3		Х*									
General Electric	THQB	2-3		٨			Χ		Χ				
General Electric	THQB GF	1-2					٨		^				
General Electric	THQB-A		X	V					Χ				
General Electric		1	٨	X									
	THQB-S	1		Х			V		X				
General Electric	THQC	2-3	V	V			Х		X				
General Electric	THQC-A	1	Х	Х			V		X				
General Electric	THQC-AL	2-3		.,			Χ		Х				
General Electric	THQC-S	1		X					Х				



					ard Breaker L	ockouts		Circuit Brea	iker LO Sys.	ı	/lini Circuit Br	eaker Lockou	ts
Circuit Breaker Mfg.	Breaker Type	# of Poles	120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
General Electric	THQD	2-3		Х*					Х				
General Electric	THQDBL	3							Χ				
General Electric	THQL	2-3					Χ		Х				
General Electric	THQL-A	1	Χ	Χ					Χ				
General Electric	THQL-S	1		Х					Х				
General Electric	TJ2	2-3			Х**	Χ							
General Electric	TJ4	3		Х*	Χ				V				
General Electric General Electric	TJC TJD	2-3 2-3		X.	X**				Х				
General Electric	TJJ	2-3			Λ X**								
General Electric	TJK	2-3			X**								
General Electric	TJS	2-3			X**								
General Electric	TK4V	3			Х								
General Electric	TKC	3		Х*					Χ				
General Electric	TKM	2-3				Χ							
General Electric	TKMA8	3				Χ							
General Electric	TQB	2-3					Х		Х				
General Electric	TQB-A	1	Х	X					X				
General Electric	TQB-S	1		Х					X				
General Electric	TQC	2-3	V	V			Χ		Х				
General Electric General Electric	TQC-A TQC-S	1	Х	X					X				
General Electric	TQD	2-3		X					٨				
General Electric	TQL	1-3		٨									
General Electric	TQL	2-3											
General Electric	TQL-A	1	Χ	Χ					Χ				
General Electric	TQL-S	1		Χ					Х				
General Electric	V	1-4									Χ		
Merlin Gerin	B100A	2										Χ	Χ
Merlin Gerin	C32N	1-3								Χ			
Merlin Gerin	C45AD	3								Х			
Merlin Gerin	C60a	1-4								X			
Merlin Gerin Merlin Gerin	C60H C60N	1-4 1-4								X			
Merlin Gerin	C80A	3								٨		Χ	Х
Merlin Gerin	NC100H	1-3										Х	^
Merlin Gerin	NC125H	1-3										Х	
Merlin Gerin	NC100L	1-4										Χ	
Merlin Gerin	NC100LH	1-4										Χ	
Merlin Gerin	NC100L MA	3										Χ	
Merlin Gerin	NC100N	1-4										Χ	
Merlin Gerin	C801N	3				Χ							
Merlin Gerin	C1251N	3				Х							
Merlin Gerin	CE104N	3		Х*		.,							
Merlin Gerin	CK1200NA	3			Χ**	Х							
Merlin Gerin Siemans ITE	CJ 59Y11	3			Χ.							Χ	
Siemans ITE Siemans ITE	5SX11 5SX12	1 2										^	χ
Siemans ITE	5SX12 5SX13	3											X
Siemans ITE	5SX21	1										Χ	Λ.
Siemans ITE	5SQ11	1										X	
Siemans ITE	5SQ12	2											Χ
Siemans ITE	5SQ13	3											Χ
Siemans ITE	5SQ16	4											Χ
Siemans ITE	5SN22	2											Χ
Siemans ITE	BL	1	Χ	Χ				Χ	Х				
Siemans ITE	BL	2-3					X		X				
Siemans ITE	BLF-GFI	2	v	v			Χ		X				
Siemans ITE	BLH	1	Х	Х			V		X				
Siemans ITE Siemans ITE	BLH RO	2-3 1	Х	Х			Χ		X				
Siemans ITE	BQ BQ	2-3	^	^			Χ		X				
Siemans ITE	BQCH	1-3		Х					Х				
*I lee with cleat :			with cleat #4						Λ				

Safety



			120V	Stand: 120/277V	ard Breaker L	ockouts		Circuit Brea	ker LO Sys.		Mini Circuit Br	eaker Lockou	ts
Circuit Breaker Mfg.	Breaker Type	# of Poles	Snap On (w/hole) 44-810	Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Square D	FA	1-3		Х*									
Square D	FAL	1-3		Χ*									
Square D	FC	3		Х*									
Square D	FCL	2-3		Χ*									
Square D	FDA			Χ					Χ				
Square D	FGA	3							Χ				
Square D	FH	1-3		Χ*									
Square D	FHL	1-3		Х*									
Square D	FHL-DC	3		Χ*									
Square D	FHP	3		Χ*									
Square D	FI	3		Χ*									
Square D	FIL	3		Χ*									
Square D	FY	1		Χ*									
Square D	GJL	3		Χ*									
Square D	KA	2-3		Х*									
Square D	KAL	2-3		Χ*									
Square D	KAP				Χ								
Square D	KC	2-3		Х*									
Square D	KCL	2-3		Х*									
Square D	KH	2-3		Χ*									
Square D	KHL	3		Х*									
Square D	KI	2-3		Χ*									
Square D	KIL	2-3		Х*									
Square D	LA	2-3			Χ**								
Square D	LAL	2-3			X**	Χ							
Square D	LAP	3			Χ**	Χ							
Square D	LC	3				Х							
Square D	LCP	3				Χ							
Square D	LH	2-3			Χ**								
Square D	LHL	3			Χ**	Х							
Square D	LHP				Χ**	Х							
Square D	L2	3				Х							
Square D	LXL	3				Х			.,				
Square D	Q1B	2-3		X					X				
Square D	Q1L	2-3		X					Х				
Square D	Q2	2-3		Χ*									
Square D	Q2H	2-3		X*									
Square D	Q2L	2-3		Χ*									
Square D	Q2MT	2-3		Х*	V++								
Square D	Q4	2-3			Χ**								
Square D	Q4L	2-3			Х**			V					
Square D	Q0	1	V	V				X	V				
Square D	Q0	2-3	Х	Х				X	Х				
Square D	QOB	1	V	V				X	V				
Square D Square D	QOB QOB-H	2-3	Х	Х				X	Х				
Square D Square D	QOB-VH	1	Х	Х				X					
			٨	٨			X	٨					
Square D	QOB-VH QO-H	2-3 2					Λ	Х					
Square D	QO-H QOM1-VH			V				٨	V				
Square D	QOM2-VH	2		X					X				
Square D	QOM2-VH QO-SWN	2 2-3	X	X				Х	X				
Square D		2-3 1	λ	λ				X	Λ				
Square D	QOU QOU	2-3		X				X	X				
Square D Square D	QOU w/tie bar	2-3		٨			Х	٨	X				
	QOU W/tie bar QO-VH	2-3 1					٨	Х	٨				
Square D			V	V				X	V				
Square D	QO-VH	2-3	Х	Х				X	Х				
Square D	QYU	1			v			X					
Square D	Y1			V	Х				V				
Westinghouse Westinghouse	RE RH	3		Х	X				Х				
	KH WPHX	1	X	X	λ				Х				
Westinghouse			٨	٨					٨				

*Use with cleat #44-785

Item Page	Item Page	Item Page	Item Page
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IT250CCL-C0	E-9	IT-BAG	E-2	LA-3953D-	2, G-14, G-25	LB-720	D-7	WT1-B	A-37
IT2I-C		IT-COMBO		LA-4102	G-12	LB-721	D-7	WT2-1	A-37
IT2I-C0	E-4	K-2422	A-29	LA-4123		LB-722	D-7	WT2-B	A-37
IT2I-M	E-4	K-6491		LA-4124		LB-727	D-7	WT3-1	A-37
IT2I-M0	E-4	K-6492		LA-4125	H-19	LB-728	D-7	WT3-B	A-37
IT2LH-C	E-5	K-6493		LA-4126	H-19	LB-729	D-7	WT4-1	A-37
IT2LH-C0	E-5	K-6494		LA-4127	H-19	LB-730	D-7	WT41-1	A-38
IT2M-C	E-4	K-6495		LA-4128	H-19	LB-731	D-7	WT41-500JR	A-38
IT2M-C0	E-4	K-6496		LA-4157	G-8	LB-740	D-2, G-14	WT41-B	
IT2M-M	E-4	K-6497		LA-4159	G-8	LB-742	D-2	WT41-SK	A-38
IT2S-CE	-2, E-3, E-5	K-6498		LA-4173	G-8	LB-743	D-2, G-14	WT4-B	A-37
IT2S-C0		K-6499		LA-4218		LB-744		WT51-1	
IT2S-C30	E-5	K-6500		LA-4233		LB-825		WT51-4	A-38
IT2S-C35		K-6501		LA-4234		LB-840		WT51-500JR	
IT2S-C702		K-6502		LA-4235		LB-882		WT5152JR	
IT2SID-C		K-6503		LANTEK10GB		LB-883		WT51-B	
IT2S-M		K-6504		LANTEK6		LB-895		WT51-SK	
IT2S-M0		K-6505		LANTEK6A			D-7	WT52-1	
IT2S-IVIO		K-7920		LANTEK6ABA			D-5, D-6	WT52-500JR	
IT2SMB-CO		K-8906R		LANTEK6APR		LB-911		WT52-500JR WT52-B	
IT2SMH-C		K-8909						WT52-SK	
				LANTEK6ATR\			D-5, D-6		
IT2SMH-C0		K-8926		LANTEKAC			D-5, D-6	WT54-1	
IT2SMH-M		K-8947R		LANTEK7G			D-5, D-6	WT54-B	
IT375CCL2-C		K-8985		LANTEK7GBA		LB-916		WT6-1	
IT375CCL2-C0		L-1953		LANTEK7GPR			D-5, D-6	WT6-B	A-37
IT3I-C	E-4	L-4419	.D-2, D-3	LANTEK7GTR\	vG-3	LB-918	D-5, D-6		

Customer Service/ Technical Support

It has long been a goal at IDEAL to serve our customers and distributors more effectively than anyone in the industry. A promise of helping our customers and distributors in any way we can comes with every product we ship.

- Customer service and technical support representatives available
 Monday through Friday, 7 a.m. to 7 p.m. CST
- Complete offering of marketing/sales literature within 24 hours of request



Merchandising

Point-of-purchase communication is an important aspect of the IDEAL sales strategy. We are committed to helping our distributors move our products off their shelves. To do that, we've developed a variety of exciting, thoughtful ways to increase a store's association with IDEAL and build repeat customers.

Promotions

There is no substitute for the impact that an effectively managed national promotion can achieve. Our record of exciting and successful promotions is second-to-none in the industry. The annual Collectible Toy Truck promotion, for example, has become a phenomenon of its own and helps sell millions of wire connectors. With a well-designed promotion, everyone wins.

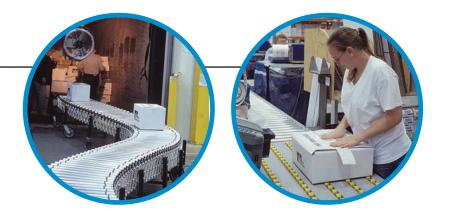


Distribution Center

Our state-of-the-art facility located at IDEAL headquarters in Sycamore, IL is responsible for making sure our products arrive on time and as ordered to our customers around the world. Our employees manage an inventory of thousands of different products, ensuring they're available when our customers need them. Orders received by 1 p.m. are normally shipped by 5 p.m. of the same day.







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