



IDEAL® The Brand Electricians Trust.™



2015 Full-Line
Catalog



TABLE OF CONTENTS

A

WIRE TERMINATION

Twist-on Wire Connectors	A-3
WeatherProof™ & UnderGround™ Wire Connectors.	A-7
BUCHANAN Wire Connectors	A-9
SpliceLine® In-Line Wire Connectors	A-12
In-Sure® Push-In Wire Connectors	A-12
PowerPlug® Luminaire Disconnects	A-13
Grounding Products	A-15
SLK® Disconnect Fuse Kits	A-18
Crimp Terminals & Splices	A-25
Terminal Strips	A-34
BUCHANAN Terminal Blocks	A-37
BUCHANAN Tap Connectors	A-42

B

TOOLS & SUPPLIES

Fish Tapes & Accessories	B-3
Fishing Poles	B-7
Wire Pulling Lubricants & Accessories	B-8
Pulling Supplies	B-13
Conduit Benders	B-16
Wire Strippers	B-18
Pliers	B-24
Miscellaneous Hand Tools	B-28
Cable Cutters	B-34
Screwdrivers	B-37
Industrial Bits & Accessories	B-46
Insulated Hand Tools	B-50
Tool Carriers & Bags	B-56
Hand Tool Kits	B-60
Cutting & Holemaking Tools	B-63
Cable Ties	B-77
Cable Staples	B-85
Wire Markers	B-87
Switches	B-89
Heat Shrink	B-96
Heat Guns	B-101
Lockout/Tagout	B-103
Safety Signs	B-113
Safety Tapes	B-114
Commutator Maintenance	B-126

C

PRECISION WIRE STRIPPING

Stripmaster® Wire Strippers	C-3
Custom Stripmaster® Wire Strippers	C-7
Pneumatic Wire Strippers	C-10

D

TEST & MEASUREMENT

Circuit Tracers	D-3
Clamp Meters	D-6
Circuit Analyzers	D-11
Multimeters	D-12
Specialty Testers	D-13
Accessories	D-17

E

DATA COMM/NETWORKS

Testers	E-3
Compression Tools & Connectors	E-6
Crimp Tools/Die Sets	E-8
Tools	E-10
Modular Plugs	E-12
Strippers	E-13
Splitters	E-16
Kits	E-17
Fiber Optics	E-20



NEW AND UPDATED PRODUCTS



Made in U.S.A. WireMan™ Pliers

- Forged of vanadium alloy steel for excellent durability
 - Precision mated blades for easy cutting
 - Professional quality for maximum life and performance
- For more information, see page B-25.

Compression Connectors

RG-11 RTQ/Plenum Compression Connectors

- Fits 60% regular and quad shield RG-11 cables
- InSITE™ window for easier verification

RG-6 Quad TLC™ Compression Connector

- No compression tool required
- Compact body size

For more information, see page E-7.



Heavy-Duty Pneumatic Wire Stripper

- Rotating stripping head for ease of left or right hand operation
- Adjustable speed control
- Interchangeable blade offers versatility for general purpose wire stripping

For more information, see page C-10.

S-Class® Non-Conductive Tip Fish Tapes

- Designed for use around energized sources
- Flexible fiberglass core provides superior strength, greater pushing power and smooth handling through multiple bends
- Durable non-conductive eyelet offers added protection against arc-flash

For more information, see page B-4.



WIRE TERMINATION

Twist-On Wire Connectors

Wire-Nut® Wire Connectors	A-4
Wing-Nut® Wire Connectors	A-5
Twister® Wire Connectors	A-6
WeatherProof™/UnderGround™ Wire Connectors	A-7
Twister® Al/Cu Wire Connectors	A-8
B-CAP® Wire Connectors.....	A-9
WireTwist™/WingTwist™ Wire Connectors	A-10

Push-In Wire Connectors

SpliceLine™ In-Line Wire Connectors.....	A-12
In-Sure™ Push-In Wire Connectors	A-12

Luminaire Disconnects

PowerPlug® Luminaire Disconnects	A-14
--	------

Grounding Products

Grounding Pigtails	A-16
Grounding Screws.....	A-17

Streetlight Kits.....

A-18

Electrical Terminals, Crimp and Screw Connectors

Ring	A-26
Spade.....	A-27
Disconnects	A-28
Splices	A-30
Crimp Connectors	A-32

Terminal Strips/Blocks

A-35

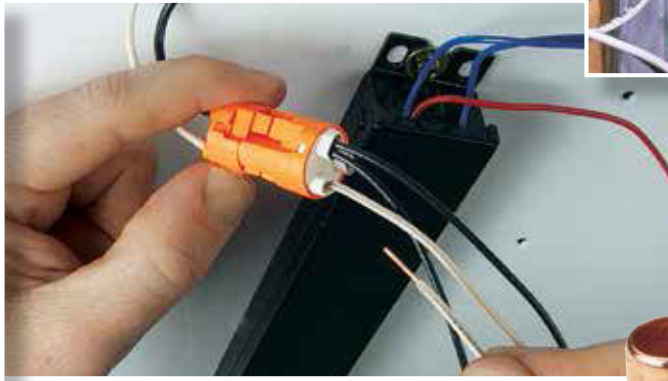
Tap Connectors

B-TAP® Insulation-Piercing Connectors.....	A-42
--	------



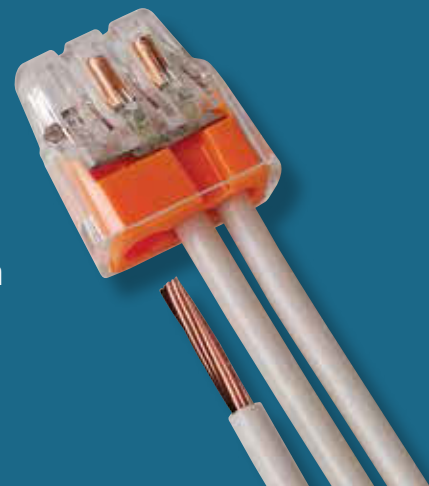


WIRE TERMINATION



Ingenuity & Performance

From the introduction of our first twist-on wire connector, IDEAL has been the leading force in wire termination technology. Through ingenuity, proven performance and innovative engineering, IDEAL continues to lead the electrical industry with products that deliver more than the price paid.



Twist-On Wire Connectors... a design for every application.

Wire-Nut® Wire Connectors

This American classic is the original connector that started it all. The Wire-Nut® Wire Connector has five color-coded models that cover a full range of wires from 20 to 6 AWG. Ribbed shell provides a positive grip and the fixed square wire spring ensures a secure connection.

Wing-Nut® Wire Connectors

For extra leverage and maximum torque, the Wing-Nut® Wire Connector provides an easy, secure grip when connecting a wide range of wires. The specially designed contoured wings make for extra torque and quick work on any electrical job. Three models cover from 18 to 6 AWG and include the Red 452® Wing-Nut® with the widest range of any wing-styled connector in the industry.

Twister® Wire Connectors

The industry's choice for residential jobs with three models, the Twister® easily handles the most common wiring configurations for residential construction projects from 22 to 6 AWG. A patented, expanding square-wire spring ensures a quick, secure connection.

B-CAP® Wire Connectors

The B-CAP® gets you into those hard-to-reach spots comfortably, especially when you're retrofitting or updating. The contoured classic fin design provides a secure grip for extra torque while the expanding interior spring accepts a wide range of wire sizes and combinations. Three models cover from 22 through 6 AWG.

B-Twist™ Wire Connectors

The All-in-One connector that gets the job done. The B-Twist™ combines all the features of red and yellow wire connectors in one unique design. The rounded "dial-top" provides fast, fingertip starts that come to torque quickly and the low-profile design fits easily into electrical boxes. With a super-wide range, the B-Twist™ provides top performance at a great value.

WeatherProof™ / UnderGround™ Wire Connectors

Twist-on connectors for underground and wet location installations. Six models cover a wide range of wire sizes from 22 through 6 AWG. The WeatherProof™ and UnderGround™ line features a 100% non-hardening silicone sealant to ensure safe, moisture-free electrical connections. UL Listed and CSA Certified for damp/wet and direct burial applications.

Twister® Al/Cu Wire Connectors

The only twist-on connector for aluminum-to-copper connections. The specially formulated anti-oxidant compound prevents oxidation on aluminum conductors for improved conductivity and cooler connections. UL Listed and CSA Certified for aluminum-to-copper connections.



Wire-Nut® Wire Connectors

- Positive grip shell design provides fast, easy installation
- Square-wire fixed spring design creates its own threads for a grip that will last
- Deep, wide skirt protects against arcing and flash-over
- Reusable for easy circuit changes
- Tough, UL94V-2 flame retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
71B®	Gray	300V 22 to 16 AWG Min. 2 #22 – Max. 2 #16	300V ,34mm ² to 1,5mm ² Min. 2-,34mm ² Max. 3-1,5mm ²	Box of 100	30-071
				Carton of 1,000	30-171
				Keg of 25,000	30-271
				Barrel of 150,000	30-871
72B®	Blue	300V 22 to 14 AWG Min. 2 #22 – Max. 3 #16	300V ,34mm ² to 2,5mm ² Min. 2-,34mm ² Max. 3-1,5mm ²	Box of 100	30-072
				Carton of 1,000	30-172
				Keg of 10,000	30-272
				Barrel of 85,000	30-872
73B®	Orange	600V* 22 to 14 AWG Min. 1 #18 & 1 #20 Max. 2 #14	600V* ,34mm ² to 2,5mm ² Min. 1-,75mm ² w/1-,50mm ² Max. 4-1,5mm ² w/1-,50mm ²	Box of 100	30-073
				Jar of 300	30-073J
				Bag of 500	30-273
				Carton of 1,000	30-173
74B®	Yellow	600V* 18 to 12 AWG Min. 2 #18 Max. 4 #14 & 1 #18	600V* ,75mm ² to 4,0mm ² Min. 2-,75mm ² Max. 4-2,5mm ² w/1-,75mm ²	Keg of 10,000	30-673
				Barrel of 50,000	30-873
				Box of 100	30-074
				Jar of 175	30-074J
76B®	Red	600V* 18 to 6 AWG Min. 2 #14 Max. 5 #12	600V* ,75mm ² to 16,0mm ² Min. 2-2,5mm ² Max. 2-4,0mm ²	Bag of 500	30-274
				Carton of 1,000	30-174
				Keg of 5,000	30-674
				Barrel of 35,000	30-874
76B®	Red	600V* 18 to 6 AWG Min. 2 #14 Max. 5 #12	600V* ,75mm ² to 16,0mm ² Min. 2-2,5mm ² Max. 2-4,0mm ²	Box of 100	30-076
				Jar of 150	30-076J
				Bag of 250	30-276
				Carton of 1,000	30-176
76B®	Red	600V* 18 to 6 AWG Min. 2 #14 Max. 5 #12	600V* ,75mm ² to 16,0mm ² Min. 2-2,5mm ² Max. 2-4,0mm ²	Barrel of 15,000	30-876

*1,000V maximum in fixtures and signs

High-Temp Wire-Nut® Wire Connectors

All of the same features as the Wire-Nut® Wire Connector, plus:

- Black, thermoplastic shell designed to withstand extreme heat build-up found in high-wattage light fixtures and signs
- UL Listed to 150°C (302°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
71B®	Black	300V 22 to 16 AWG Min. 2 #22 Str – Max. 2 #16	300V ,34mm ² to 1,5mm ² Min. 2-,34mm ² – Max. 2-1,5mm ²	Box of 100	30-3627
				Carton of 1,000	30-151
				Keg of 25,000	30-251
72B®	Black	300V 22 to 14 AWG Min. 2 #22 – Max. 3 #16	300V ,34mm ² to 2,5mm ² Min. 2-,34mm ² – Max. 3-1,5mm ²	Box of 100	30-3628
				Carton of 1,000	30-152
				Keg of 10,000	30-252
73B®	Black	600V* 22 to 14 AWG Min. 1 #18 w/1 #20 Max. 2 #14	600V* ,34mm ² to 2,5mm ² Min. 1-,75mm ² w/1-,50mm ² Max. 4-1,5mm ² w/1-,50mm ²	Box of 100	30-3629
				Carton of 1,000	30-153
				Keg of 10,000	30-253
				Barrel of 50,000	30-803
59B™	Black	600V* 22 to 12 AWG Min. 2 #20 – Max. 3 #14	600V* ,34mm ² to 4,0mm ² Min. 2-,5mm ² – Max. 3-2,5mm ²	Box of 100	30-059
				Keg of 5,000	30-259

*1,000V maximum in fixtures and signs

Wing-Nut® Wire Connectors

- Contoured wing profile brings more power to every twist for fast, secure connections
- Expanding, square-wire spring accommodates a wide range of wire sizes and combinations
- Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- Tough, UL94V-2 flame retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
451®	Yellow	600V* 18 to 10 AWG Min. 2 #18 – Max. 3 #12	600V* .75mm ² to 6,0mm ² Min. 2-.75mm ² – Max. 3-4,0mm ²	Box of 100	30-451
				Jar of 225	30-451J
				Jar of 500	30-651J
				Bag of 500	30-651
				Carton of 1,000	30-551
				Barrel of 35,000	30-851
452®	Red	600V* 18 to 8 AWG Min. 2 #18 – Max. 4 #10 (Widest in the Industry!)	600V* .75mm ² to 10,0mm ² Min. 2-.75mm ² – Max. 4-6,0mm ²	Box of 100	30-452
				Jar of 300	30-452J
				Jar of 500	30-652J
				Bag of 500	30-652
				Carton of 1,000	30-552
				Barrel of 25,000	30-852
454®	Blue	600V* 14 to 6 AWG Min. 3 #12 – Max. 1 #6 & 2 #8	600V* 2,5mm ² to 16,0mm ² Min. 3-4,0mm ² – Max. 2-16,0mm ² w/1-4,0mm ²	Box of 25	30-454
				Bag of 100	30-654
				Carton of 250	30-554



*1,000V maximum in fixtures and signs

Greenie® Grounding Wire Connectors

- 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



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
92®	Green	14 to 10 AWG Min. 2 #14 – Max. 4 #12	2,5mm ² to 6,0mm ² Min. 2-2,5mm ² Max. 2-4,0mm ² w/1-2,5mm ²	Box of 100	30-092
				Jar of 150	30-092J
				Bag of 500	30-292
				Carton of 1,000	30-192
				Barrel of 25,000	30-992



**PREFERRED CHOICE
FOR RESIDENTIAL
JOBS**

Twister® Wire Connectors

- Hexagonal top with ribbed cap allows for quick fingertip start as well as use of standard 5/16 in. nutdriver for fast installation
- Swept wings offer extra leverage and less effort for large wire combinations
- Patented, expanding square-wire spring ensures a quick, secure connection
- Durable polypropylene shell expands for progressive tightening that ensures dependable connections
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
340™	Lt. Blue	600V* 22 to 10 AWG Min. 2 #22 – Max. 3 #12	600V* ,34mm ² to 4,0mm ² Min. 2-,34mm ² – Max. 3-4,0mm ²	Box of 100	30-340
				Jar of 500	30-640J
				Barrel of 35,000	30-840
341®	Tan	600V* 22 to 8 AWG Min. 3 #22 – Max. 3 #10	600V* ,34mm ² to 10,0mm ² Min. 3-,34mm ² – Max. 3-6,0mm ²	Box of 100	30-341
				Jar of 400	30-441J
				Bag of 500	30-641
				Jar of 750	30-341J
				Carton of 1,000	30-541
				Barrel of 25,000	30-841
342®	Gray	600V* 18 to 6 AWG Min. 3 #14 – Max. 2 #8 w/2 #12	600V* ,75mm ² to 10,0mm ² Min. 3-2,5mm ² – Max. 2-10,0mm ² w/2-4,0mm ²	Box of 50	30-342
				Bag of 250	30-642
				Barrel of 15,000	30-842

*1,000V maximum in fixtures and signs

Twister® Pro Wire Connectors

- SureGrip™ overmolding provides improved leverage, more torque and faster connections
- Comfortable swept wings ease hand fatigue
- Expanding square-wire spring provides a secure connection every time
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



**Twister
PRO**



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
344®	Red/Yellow 	600V* 22 to 8 AWG Min. 2 #18 Max. 4 #10 (Widest in the Industry!)	600V* ,34mm ² to 10,0mm ² Min. 2-,75mm ² Max. 4,0-6,0mm ²	Box of 50	30-144
				Jar of 250	30-244J
				Jar of 500	30-644J
				Barrel of 20,000	30-944

*1,000V maximum in fixtures and signs

Spin-Twist® Wire Connector Socket

- 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



Description	Cat. No.
For Connector Models Wire-Nut®, Wing-Nut®, Twister®, B-CAP® & WingTwist® Wire Connectors	30-902



WeatherProof™ Wire Connectors

- 100% Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486D for use in damp/wet locations or above-grade applications
- Easy to apply, pre-filled twist-on wire connectors
- Swept wing design is built for comfort and efficiency
- Eliminates the need for heat-shrink or excessive taping
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
61®	Gray/Orange	600V* 22 to 14 AWG Min. 2 #20 – Max. 2 #14	600V* ,34mm ² to 4,0mm ² Min. 2-,5mm ² – Max. 2-2,5mm ²	Card of 25	30-1161
				Jar of 150	30-1261J
				Carton of 1,000	30-1361
62®	Gray/Red	600V* 18 to 8 AWG Min. 2 #16 – Max. 2 #10	600V* ,75mm ² to 10,0mm ² Min. 2-1,5mm ² – Max. 2-6,0mm ²	Card of 20	30-1162
				Jar of 100	30-1262J
				Carton of 1,000	30-1362
63®	Gray/Dk. Blue	600V* 16 to 6 AWG Min. 3 #14 – Max. 5 #10	600V* 1,5mm ² to 16,0mm ² Min. 3-2,5mm ² – Max. 5-6,0mm ²	Card of 15	30-1163
				Jar of 50	30-1263J
				Carton of 1,000	30-1363

1,000V maximum fixtures and signs.

UnderGround™ Wire Connectors

- 100% Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486D for use in damp/wet locations or direct burial/below-grade applications
- Easy to apply, pre-filled twist-on wire connectors
- Expanding, live-action square-wire spring for fast, secure and long-lasting connections
- Deep skirt provides superior moisture resistance to protect connections
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
60®	Gray/Blue	600V* 20 to 10 AWG Min. 1 #20 w/1 #18 Max. 1 #10 w/2 #12	600V* ,5mm ² to 6,0mm ² Min. 1-,5mm ² w/1,75mm ² Max. 1-6,0mm ² w/2-4,0mm ²	Box of 25	30-1160
				Box of 100	30-1260
				Box of 1,000	30-1360
64®	Gray/Dk. Blue	600V* 18 to 8 AWG Min. 2 #18 Sol. Max. 3 #10	600V* ,75mm ² to 10,0mm ² Min. 2-,75mm ² Sol. Max. 3-6,0mm ²	Box of 50	30-1264
				Box of 1,000	30-1364
66™	Gray/Dk. Blue	600V* 14 to 6 AWG Min. 3 #12 Max. 2 #6 w/1 #10	600V* 2,5mm ² to 16,0mm ² Min. 3-4,0mm ² Sol. Max. 2-16,0mm ² w/6,0mm ²	Box of 50	30-1066

*1,000V maximum in fixtures and signs

Combination Packages

Model	Color	Quantity	Cat. No.
61®/62®	Gray/Orange • Gray/Red	Card of 10 (5 ea.)	30-6162
60®/64®	Gray/Blue • Gray/Dk. Blue	Card of 10 (5 ea.)	30-6064

MudBug® Utility Wire Connectors

- Connects underground gas tracer lines providing superior protection
- Moisture and corrosion resistant, pre-filled with non-hardening, 100% silicone
- UL Listed to direct burial test standard 486D up to 600V maximum voltage



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
60®	Yellow	600V* 20 to 10 AWG Min. 1 #20 w/1 #18 – Max. 1 #10 w/2 #12	600V* ,5mm ² to 6,0mm ² Min. 1-,5mm ² w/1 ,75mm ² – Max. 1-6,0mm ² w/2-4,0mm ²	Box of 25	30-160Y
				Box of 1,000	30-360Y
64®	Yellow	600V* 18 to 8 AWG Min. 2 #18 Sol. – Max. 3 #10	600V* ,75mm ² to 10,0mm ² Min. 2-,75mm ² Sol. – Max. 3-6,0mm ²	Box of 25	30-164Y

*1,000V maximum in fixtures and signs

Twister® Al/Cu Wire Connectors

- Only aluminum-to-copper twist-on connector specifically designed to assure a secure connection while preventing aluminum corrosion
- Pre-filled antioxidant compound prevents oxidation of aluminum conductors
- Patent 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
- Entry-cap retains corrosion-resistant compound
- 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



Model	Color	Wire Combination Ranges	Quantity	Cat. No.
65	Purple	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 2 #10 Al solid w/1 #14 Cu 2 #12 Al solid w/1 #10 Cu 2 #12 Al solid w/1 #16 Cu 1 #12 Al solid w/1 or 2 #10 Cu 1 #10 Al w/1 or 2 #16 Cu 2 #10 Al solid w/1 #16 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 #18 Cu 2 #12 Al solid w/1 #18 Cu 2 #12 Al solid w/1 #18 Cu	Card of 2	30-065
			Card of 10	30-765
			Card of 25	30-165
			Box of 100	30-265
			Carton of 1,000	30-365
			<i>See website for a complete listing of UL Listed wire combinations.</i>	

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

WARNING:

1. One time use only. Do not reuse connector.
2. Do not use on aluminum to aluminum wire combinations.
3. Wiring must comply with all applicable electrical codes.



B-CAP® Wire Connectors

- Comfortable, 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
- Unique, space-saving profile is perfect for “old work” or shallow boxes
- 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



TWIST-ON WIRE CONNECTORS

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

*1,000V maximum in fixtures and signs

B-Twist™ Wire Connectors

- All-in-one connector with wide red/yellow range from 2#18 to 2 #8
- Rounded dial-top with vertical ribs provides fast fingertip starts
- Square-wire spring bring connection to torque quickly
- Long swept-wings improve comfort and torque
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
BT2™	Red	600V* 18 to 8 AWG Min. 2 #18 – Max. 2 #8	600V* ,75mm ² to 10mm ² Min. 2-,75mm ² – Max. 1-8,0mm ² w/2-6,0mm ²	Box of 100	BT2-1
				Jar of 500	BT2-500JR
				Barrel of 25,000	BT2-SK

*1,000V maximum in fixtures and signs

WireTwist® Wire Connectors

- Positive grip shell design for fast, easy installation
- Fixed, square-wire spring creates secure connections
- Deep skirt protects against flash-over
- Tough, UL 94V-2 flame-retardant shell (105°C/221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
WT1	Gray	300V 22 to 14 AWG Min. 3 #22 – Max. 2 #16	300V ,34mm ² to 2,5mm ² Min. 3-.34mm ² –Max. 2-1,5mm ²	Box of 100	WT1-1
				Bag of 500	WT1-B
WT2	Blue	300V 22 to 14 AWG Min. 3 #20 – Max. 3 #16	300V ,34mm ² to 2,5mm ² Min. 3-.50mm ² –Max. 3-1,5mm ²	Box of 100	WT2-1
				Bag of 500	WT2-B
WT3	Orange	600V* 22 to 14 AWG Min. 2 #18 – Max. 2 #14	600V* ,34mm ² to 2,5mm ² Min. 2-.75mm ² –Max. 2-2,5mm ²	Barrel of 50,000	WT2-SK
				Box of 100	WT3-1
WT4	Yellow	600V* 22 to 10 AWG Min. 2 #18 – Max. 2 #12	600V* ,75mm ² to 6,0mm ² Min. 2-.75mm ² –Max. 2-4,0mm ²	Bag of 500	WT3-B
				Barrel of 50,000	WT3-SK
WT6	Red	600V* 20 to 8 AWG Min. 2 #14 – Max. 4 #12	600V* ,50mm ² to 10,0mm ² Min. 2-2,5mm ² – Max. 4-4,0mm ²	Box of 100	WT4-1
				Bag of 250	WT4-B
				Barrel of 25,000	WT4-SK
				Barrel of 25,000	WT6-1
				Barrel of 25,000	WT6-B
				Barrel of 25,000	WT6-SK

*1,000V maximum in fixtures and signs

WingTwist® Wire Connectors

- Contoured wing design provides maximum torque
- Expanding, square-wire spring creates secure connections
- Wide, deep skirt opening accommodates a variety of wire combinations
- Tough, UL 94V-2 flame retardant shell (105°C/221°F)



Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
WT51	Yellow	600V* 18 to 10 AWG Min. 2 #18 – Max. 3 #12	600V* ,75mm ² to 6,0mm ² Min. 2-.75mm ² – Max. 3-4,0mm ²	Box of 100	WT51-1
				Bag of 500	WT51-B
				Jar of 500	WT51-500JR
				Barrel of 25,000	WT51-SK
WT41	Tan	600V* 22 to 10 AWG Min. 2 #20 – Max. 3 #10 Solid	600V* ,34mm ² to 6,0mm ² Min. 2-0,5mm ² – Max. 3-6,0mm ²	Box of 100	WT41-1
				Bag of 500	WT41-B
				Jar of 500	WT41-500JR
				Barrel of 25,000	WT41-SK
WT52	Red	600V* 18 to 10 AWG Min. 2 #14 – Max. 5 #12	600V* ,75mm ² to 6,0mm ² Min. 2-2,5mm ² – Max. 5-4,0mm ²	Box of 100	WT52-1
				Bag of 500	WT52-B
				Jar of 500	WT52-500JR
				Barrel of 25,000	WT52-SK
WT54	Blue	600V* 14 to 6 AWG Min. 3 #12 – Max. 2 #6	600V* 2,5mm ² to 16,0mm ² Min. 3-4,0mm ² – Max. 2-16,0mm ²	Box of 50	WT54-1
				Bag of 100	WT54-B
WGR	Green	14 to 10 AWG Min. 2 #14 – Max. 5 #12	2,5mm ² to 6,0mm ² Min. 2-2,5mm ² – Max. 5-4,0mm ²	Box of 50	WGR-1
				Bag of 250	WGR-B
				Jar of 500	WGR-500JR
				Barrel of 25,000	WGR-SK

*1,000V maximum in fixtures and signs

Combination WingTwist®/WireTwist® Wire Connectors

Description	Quantity	Cat. No.
WireTwist®/WingTwist® Wire Connector Kit contains 620 wire connectors - 22-6 AWG in reusable case: WT1 (100), WT2 (100), WT3 (100), WT4 (100), WT6 (25), WT41 (60), WT51 (100), WT52 (25), WT54 (10)	Kit of 620 pcs.	30-2091

Push-In Wire Connectors

In-Sure® Push-In Wire Connectors

If it's IDEAL, it's a quality connector – and the In-Sure® Push-In Wire Connector is no exception. Color-coded, the clear polycarbonate housing allows for visual verification of every connection. The ergonomic design of the In-Sure® is easier to grip which means more comfortable push-in type connections.

Perfect for OEM lighting manufacturing, prefabricated wiring systems and any other branch circuit wiring applications where a traditional twist-on wire connector would be used. Simply push the wire in – the low insertion force makes it easy. UL Listed, CSA Certified and rated to 600V and 105°C, In-Sure™ saves time and improves productivity while perfecting connections.

SpliceLine® In-Line Wire Connectors

The SpliceLine® is a revolutionary in-line wire connector that utilizes patented push-in technology in a unique design to provide a crimp-free, solderless butt splice faster and easier. The 2-port model supports a wide range of either stranded or solid wires, allowing one connector to cover the same range as three traditional butt splices.

The end-to-end connection of SpliceLine® is a great solution for today's pre-fab operations and also makes it perfect for lengthening short wires in tight spaces. It easily passes through ½" knockouts and the transparent polycarbonate allows for visual inspection, assuring a secure connection every time.

SpliceLine® In-Line Wire Connectors

- Faster alternative to traditional butt splices
- Crimp-free, solderless push-in butt splice
- Slim design fits through 1/2 in. knockout
- Perfect for lengthening wire
- Transparent polycarbonate window for visual inspection of connection



SpliceLine®



Wire Connector
774A

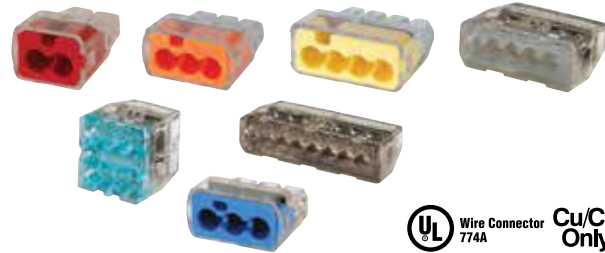
Cu/Cu
Only



Model	Color	Rating	Wire Range	Quantity	Cat. No.
42	Orange	600V/20A 105°C	Solid: 12 – 20 AWG Stranded: 12 – 16 AWG (≤19 str.) Stranded Tin-Bonded: 14 – 18 AWG (≤19 str.)	Bag of 10	30-1342S
				Box of 100	30-1042
				Jar of 300	30-1042J
				Box of 2,500	30-1642

In-Sure® Push-In Wire Connectors

- No-twist push-in design reduces repetitive motion fatigue
- Low insertion force for fast and easy connections
- Compact size makes installation easy
- Clear shell gives visual verification of connection
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)



Wire Connector
774A

Cu/Cu
Only



Model	Color	Ports	Wire Range	Quantity	Cat. No.
32	Red	2	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Box of 100	30-1032
				Jar of 300	30-1032J
				Box of 5,000	30-1632
33	Orange	3	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Box of 100	30-1033
				Jar of 250	30-1033J
				Box of 5,000	30-1633
34	Yellow	4	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Box of 100	30-1034
				Jar of 200	30-1034J
				Box of 5,000	30-1634
87	Gray	5	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Jar of 150	30-087J
				Box of 1,000	30-187
				Box of 3,000	30-687
88	Blue	6 Stacked	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Jar of 100	30-088J
				Box of 1,000	30-188
				Box of 2,500	30-688
90	Black	8	Solid: 20 – 12 AWG Stranded: 12 – 16 AWG (≤19 str.) 18 AWG (7 Strand) Stranded (Tin Bonded): 18 – 14 AWG (≤19 str.)	Jar of 100	30-090J
				Box of 1,000	30-190
				Box of 2,000	30-690
39	Blue	3	Solid: 14 – 10 AWG Stranded: 12 – 10 AWG (≤19 str.) Stranded (Tin Bonded): 14 – 10 AWG (≤19 str.)	Box of 50	30-1039
				Jar of 150	30-1039J
				Box of 2,500	30-1639

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

PowerPlug® Luminaire Disconnects

The IDEAL PowerPlug® Luminaire Disconnect fully meets the current National Electric Code and Canadian Electric Code for non-residential fluorescent luminaires. The PowerPlug® helps reduce electrical shock hazard during ballast replacement by safely disconnecting hot and neutral ballast wiring. Both halves of PowerPlug® meet UL and CSA finger-probe safety requirements. The PowerPlug® is available in 2-pole and 3-pole models with options for new installation or ballast retrofitting. Advanced push-in technology provides fast, efficient ballast connections resulting in reduced installation time and improved labor savings.

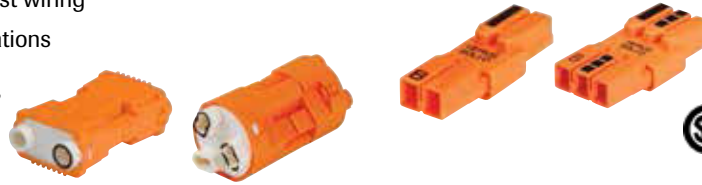


Color-coded ends: ballast side (white) and line side (orange)

PowerPlug® Luminaire Disconnects



- Allows safe disconnect of hot and neutral ballast wiring
- Perfect for new, retrofit or OEM lighting installations
- Push-in technology results in quicker connections, saving time and increasing productivity
- Both halves are “touch-safe” per UL 2459
- Fits through 1/2 in. knockout



Selection Chart

Application	New Installations	Retrofits
For 1-ballast fixtures	102	102, 182
For 2-ballast, dimming and switching fixtures	103	103, 183

Model	Color	Electrical Rating	Line Side	Ballast Side	Quantity	Cat. No.
102® 2-wire	Orange	6 Amps/600 Volts Max.	Solid: #12 - #18 Stranded: #12 - #14 (≤19 str.) Stranded Tin-Bonded: #12 - #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)	Solid: #12 - #18 Stranded: #12 - #14 (≤19 str.) Stranded Tin-Bonded: #12 - #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)	Card of 25	30-372
					Jar of 75	30-382J
					Jar of 150	30-352J
					Box of 1,000	30-102
103 3-Wire	Orange	6 Amps/600 Volts Max.	Solid: #12 - #18 Stranded: #12 - #14 (≤19 str.) Stranded Tin-Bonded: #12 - #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)	Solid: #18 Stranded: None Stranded Tin-Bonded: #18 (≤16 str.)	Card of 20	30-383X
					Jar of 50	30-383XJ
					Jar of 100	30-353XJ
					Box of 1,000	30-103X
182 2-Wire	Orange	3 Amps/600 Volts Max.	Solid: #18	Solid: #18	Box of 100	30-082
					Box of 2,500	30-682
					Box of 1,000 w/6 in. leads	30-682L *
183 3-Wire	Orange	3 Amps/600 Volts Max.	Solid: #18	Solid: #18	Box of 100	30-083
					Box of 2,500	30-683

1,000V maximum fixtures and signs. *8-10 week lead time.



Maintenance Lighting Kits

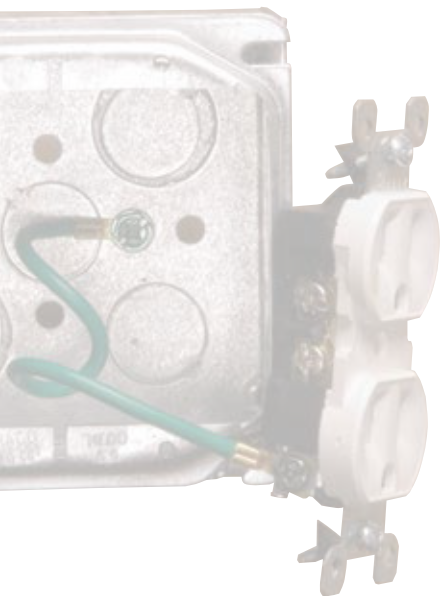
Description	Cat. No.
Basic Lighting Maintenance Kit contains: Wire-Nut® Wire Connectors (25 Model 72B® Blue, 25 Model 73B® Orange), In-Sure® Push-In Wire Connectors (25 Model 33 Orange), SpliceLine® In-Line Wire Connectors (25 Model 42 Orange) and PowerPlug® Luminaire Disconnects (30 Model 102® 2-Port, 15 Model 103 3-Port, 50 Model 182 2-Port)	30-2255
Lighting Installation Kit contains: Wire-Nut® Wire Connectors (100 Model 72B® Blue), In-Sure® Push-In Wire Connectors (50 Model 33 Orange), PowerPlug® Luminaire Disconnects (30 Model 102® 2-Port, 50 Model 182 2-Port), 1 Twist-a-Nut™ Screwdriver/Nutdriver (35-908) and 1 Reflex™ Super T®-Stripper Wire Stripper (45-615)	30-2257

Grounding Products

We've got grounding covered!

Grounding pigtails are designed for a wide variety of rounding applications. The ultra-flexible lead wire and bonding jumpers make fast and efficient pigtailing.

- Convenient for device grounding applications
- Safe, fast and efficient for cost-effective grounding jobs
- Ensures compliance with Article 250 of the National Electrical Code



Solid



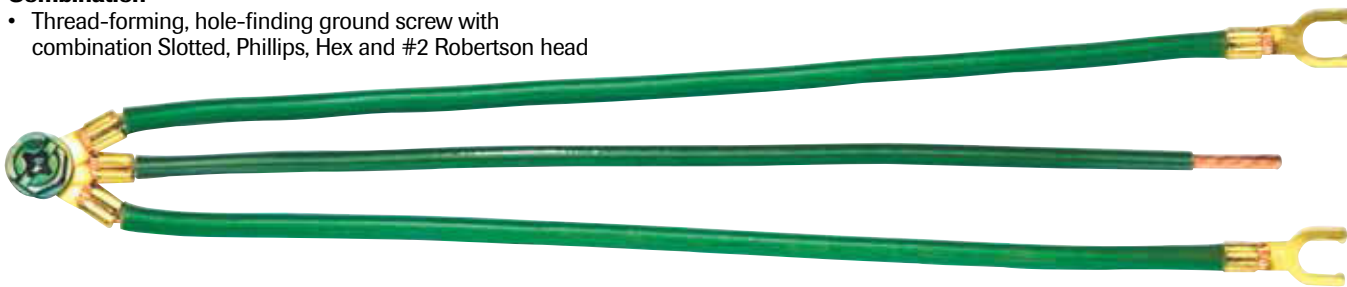
Stranded

- Heavy-duty fork terminals attach easily to device grounding screw



Combination

- Thread-forming, hole-finding ground screw with combination Slotted, Phillips, Hex and #2 Robertson head



Screws



Solid Wire Grounding Tails



Description	Quantity	Cat. No.
14 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3390
12 AWG solid, 6.5" tail w/loop & ground screw and stripped end	Box of 50	30-3404
12 AWG solid, 6.5" tail w/loop & ground screw and stripped end	Bulk Pack of 1,000	30-3402
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3392
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Plastic Box of 100	30-3399
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Bulk Pack of 1,000	30-3496
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bag of 50	30-3410
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bulk Pack of 500	30-3394
12 AWG solid, 12 in. tail w/loop & ground screw and stripped end	Box of 50	30-3498
12 AWG solid, 12 in. tail w/loop & ground screw and stripped end	Bulk Pack of 1,000	30-3396

Bulk packs are bundled in quantities of 50.

Stranded Wire Grounding Tails



Description	Quantity	Cat. No.
14 AWG stranded, 8 in. tail w/#10 fork & #10 ring and ground screw	Bag of 25	30-3183
12 AWG stranded, 8 in. tail w/#10 fork & #10 ring and ground screw	Bag of 25	30-3184
12 AWG stranded, 8 in. tail w/#10 fork & #10 ring and ground screw	Plastic box of 50	30-3385
12 AWG stranded, 8 in. tail w/#10 fork & #10 ring and ground screw	Bulk pack of 1,000	30-3284
12 AWG stranded, 8 in. tail w/#10 fork & #10 ring (no ground screw)	Bulk pack of 1,000	30-3285
12 AWG stranded, 8 in. tail w/#10 fork and stripped end	Bag of 25	30-3480
12 AWG stranded, 8 in. tail w/#10 fork and stripped end	Bulk pack of 1,000	30-3580
12 AWG stranded, 8 in. tail w/#10 ring & ground screw and stripped end	Bulk Pack of 1,000	30-3201
12 AWG stranded, 10 in. tail w/#10 fork & #10 ring and ground screw	Box of 50	30-3310
12 AWG stranded, 10 in. tail w/#10 fork & #10 ring and ground screw	Bulk pack of 500	30-3311
12 AWG stranded, 12 in. tail w/#10 fork & #10 ring and ground screw	Box of 50	30-3412
12 AWG stranded, 12 in. tail w/#10 fork & #10 ring and ground screw	Bulk pack of 1,000	30-3413

Bulk packs are bundled in quantities of 50.

Combo Grounding Tails



30-3289

Description	Quantity	Cat. No.
2-wire combo: 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	Box of 500	30-3286
2-wire combo: 12 AWG stranded w/#10 ring & ground screw, one stripped-end tail and one #10 fork tail	Bag of 25	30-3287
2-wire combo: 12 AWG stranded w/#10 ring and ground screw and two #10 fork tails	Bag of 25	30-3288
3-wire combo: 12 AWG stranded w/#10 ring & ground screw, one stripped-end tail and two #10 fork tails	Bag of 25	30-3289

Grounding Screws

- Grounding screws offer a unique thread-forming, hole-finding feature plus combination hex, Phillips, slotted and Robertson head



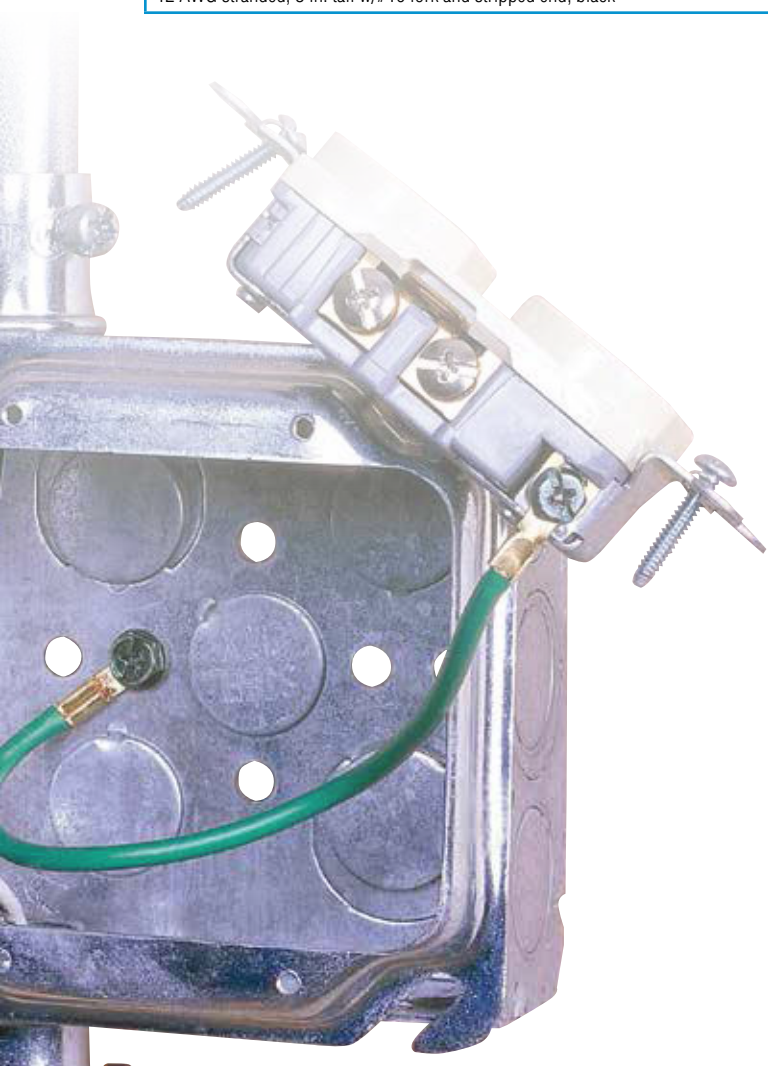
Combo Tails	Quantity	Cat. No.
Ground screw, thread-forming, hole-finding, combination hex, Phillips, slotted and Robertson head	Jar of 100	30-3594
	Pack of 50	30-3194

Non-Grounding Stranded Wire Pigtails

- 8 in. 12 AWG Stranded Pigtails – White or Black, #10 Fork and Stripped end



Non-Grounding Stranded Wire Pigtails	Quantity	Cat. No.
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, white	Bag of 25	30-3470
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, black	Bag of 25	30-3471
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, white	Bulk pack of 1,000	30-3570
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, black	Bulk pack of 1,000	30-3571



Grounding Recap

Solid (w/loop and Ground Screw)

- **14 AWG**
 - 8 in.
- **12 AWG**
 - 6-1/2 in.
 - 8 in.
 - 10 in.
 - 12 in.

Stranded

- **14 AWG**
 - 8 in. w/#10 Fork and #10 Ring & Ground Screw
- **12 AWG**
 - 8 in. w/#10 Fork and Stripped End
 - 8 in. w/#10 Fork & #10 Ring
 - 8 in. w/ #10 Fork and #10 Ring & Ground Screw
 - 10 in. w/#10 Fork and #10 Ring & Ground Screw
 - 12 in. w/#10 Fork and #10 Ring & Ground Screw

Combo (12 AWG only):

- **2-Wire**
- **3-Wire**

SLK[®] Disconnect Fuse Kits

- Breakaway fuseholder for use in:
 - Roadway & street lighting
 - Parking lot & area lighting
 - Free-standing electric vehicle charging stations
- UL Listed for submersible installations
- Bright orange color for ease of visibility
- Large selection of configurations
- Set screw or crimp terminations available



The IDEAL SLK[®] Disconnect Fuse Kit is a waterproof breakaway safety device that de-energizes roadway lights, streetlights, parking lot lights, and other freestanding electrical fixtures in the event of a knockdown, or when the fixtures need maintenance. This helps protect first responders, bystanders, and service personnel from potentially life-threatening electrical shock hazards.

The SLK[®] is the first Disconnect Fuse Kit listed to UL's ECIS category for special purpose connectors. This new category contains a set of rigorous tests from a host of UL standards, including UL 486D, the standard for submersibility. This means that the SLK[®] will stand up to the wet conditions often seen in and around pole bases, junction boxes and hand holes.

In addition, the bright orange color of the SLK[®] makes the product easy to locate in dark junction boxes, in hand holes or in a nighttime knockdown situation, when the connector is often buried amongst dirt, mud and debris.

- Accepts 13/32" x 1-1/2" midget-style fuse (Note: Fuse not included)
- Wire Range: 2-14 AWG (Cu & Al rated)
- Ratings: 30A, 600V, 105°C

Ordering Information

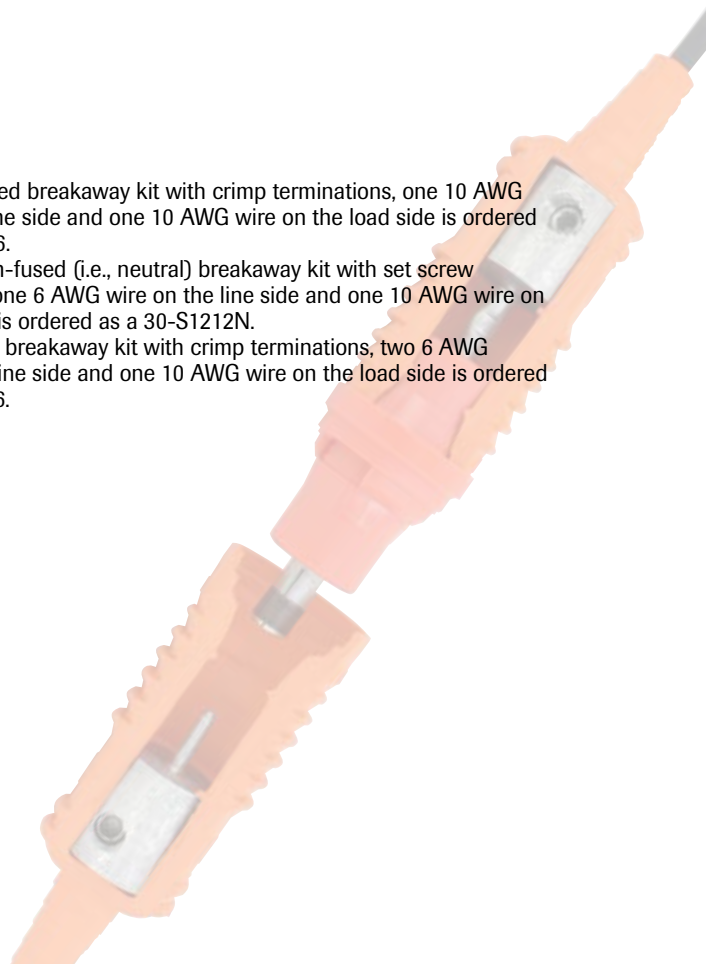
To Determine which Kit to Use:

1. Select the base part number, based on crimp termination (TABLE 1) or set screw termination (TABLE 3), number of wires on line/load side, and wire size.
2. If necessary, modify the base part number according to neutral, dual, paired, or tap (i.e., non-breakaway) configurations. Use TABLE 2 for crimp variations and TABLE 4 for set screw variations.
3. See right for examples.

Note: For fuseholder-only or combination (set screw line side, crimp load side) applications, please see the second column of the table on the next page.

Examples:

1. An in-line fused breakaway kit with crimp terminations, one 10 AWG wire on the line side and one 10 AWG wire on the load side is ordered as a 30-C1616.
2. An in-line non-fused (i.e., neutral) breakaway kit with set screw terminations, one 6 AWG wire on the line side and one 10 AWG wire on the load side is ordered as a 30-S1212N.
3. A Y-tap fused breakaway kit with crimp terminations, two 6 AWG wires on the line side and one 10 AWG wire on the load side is ordered as a 30-C2216.



SLK Ordering Information

Table 1: Crimp Base Part numbers

Line		Load													
		1 Wire							2 Wire						
		2 AWG	4 AWG	6 AWG	8 AWG	10 AWG	12 AWG	14 AWG	2 AWG	4 AWG	6 AWG	8 AWG	10 AWG	12 AWG	14 AWG
1 Wire	2 AWG	30-C1212	30-C1212	30-C1216	30-C1216	30-C1216	30-C1216	30-C1216			30-C1222	30-C1222	30-C1226	30-C1226	30-C1226
	4 AWG		30-C1212	30-C1216	30-C1216	30-C1216	30-C1216	30-C1216			30-C1222	30-C1222	30-C1226	30-C1226	30-C1226
	6 AWG			30-C1616	30-C1616	30-C1616	30-C1616	30-C1616			30-C1622	30-C1622	30-C1626	30-C1626	30-C1626
	8 AWG				30-C1616	30-C1616	30-C1616	30-C1616				30-C1622	30-C1626	30-C1626	30-C1626
	10 AWG					30-C1616	30-C1616	30-C1616					30-C1626	30-C1626	30-C1626
	12 AWG						30-C1616	30-C1616						30-C1626	30-C1626
	14 AWG							30-C1616							30-C1626
2 Wire	2 AWG	30-C2012	30-C2012	30-C2016	30-C2016	30-C2016	30-C2016	30-C2016			30-C2022	30-C2022	30-C2026	30-C2026	30-C2026
	4 AWG		30-C2012	30-C2016	30-C2016	30-C2016	30-C2016	30-C2016			30-C2022	30-C2022	30-C2026	30-C2026	30-C2026
	6 AWG			30-C2216	30-C2216	30-C2216	30-C2216	30-C2216			30-C2222	30-C2222	30-C2226	30-C2226	30-C2226
	8 AWG				30-C2216	30-C2216	30-C2216	30-C2216				30-C2222	30-C2226	30-C2226	30-C2226
	10 AWG					30-C2616	30-C2616	30-C2616					30-C2626	30-C2626	30-C2626
	12 AWG						30-C2616	30-C2616						30-C2626	30-C2626
	14 AWG							30-C2616							30-C2626

One kit will cover large wire range

Note: Crimp connections on larger gauge wire (#8 and larger) require IDEAL #88-843 Mechanical Indentor and Crimp Tool (pg. B-27).

Table 2: Crimp Variations

Base Part Number (Hot)	Variation (If applicable)			
	Neutral	Dual	Paired	Non-Breakaway
30-C1212	30-C1212N	30-C1212D	30-C1212P	
30-C1216	30-C1216N	30-C1216D	30-C1216P	
30-C1616	30-C1616N	30-C1616D	30-C1616P	
30-C1222	30-C1222N			
30-C1226	30-C1226N			
30-C1622	30-C1622N			
30-C1626	30-C1626N			
30-C2012	30-C2012N			30-C2012T
30-C2016	30-C2016N			30-C2016T
30-C2216	30-C2216N			30-C2216T
30-C2616	30-C2616N			30-C2616T
30-C2022	30-C2022N			
30-C2026	30-C2026N			
30-C2222	30-C2222N			
30-C2226	30-C2226N			
30-C2626	30-C2626N			



Table 4: Set Screw Variations

Base Part Number	Variation (If applicable)			
	Neutral	Dual	Paired	Non-Breakaway
30-S1212	30-S1212N	30-S1212D	30-S1212P	
30-S1222	30-S1222N			
30-S2212	30-S2212N			30-S2212T
30-S2222	30-S2222N	30-S2222D	30-S2222P	

Table 3: Set Screw Base Part numbers

Line		Load													
		1 Wire							2 Wire						
		2 AWG	4 AWG	6 AWG	8 AWG	10 AWG	12 AWG	14 AWG	2 AWG	4 AWG	6 AWG	8 AWG	10 AWG	12 AWG	14 AWG
1 Wire	2 AWG	30-S1212	30-S1212	30-S1212	30-S1212	30-S1212	30-S1212	30-S1212	30-S1222	30-S1222	30-S1222	30-S1222	30-S1222	30-S1222	30-S1222
	4 AWG		30-S1212	30-S1212	30-S1212	30-S1212	30-S1212	30-S1212		30-S1222	30-S1222	30-S1222	30-S1222	30-S1222	30-S1222
	6 AWG			30-S1212	30-S1212	30-S1212	30-S1212	30-S1212			30-S1222	30-S1222	30-S1222	30-S1222	30-S1222
	8 AWG				30-S1212	30-S1212	30-S1212	30-S1212				30-S1222	30-S1222	30-S1222	30-S1222
	10 AWG					30-S1212	30-S1212	30-S1212					30-S1222	30-S1222	30-S1222
	12 AWG						30-S1212	30-S1212						30-S1222	30-S1222
	14 AWG							30-S1212							30-S1222
2 Wire	2 AWG	30-S2212	30-S2212	30-S2212	30-S2212	30-S2212	30-S2212	30-S2212	30-S2222	30-S2222	30-S2222	30-S2222	30-S2222	30-S2222	30-S2222
	4 AWG		30-S2212	30-S2212	30-S2212	30-S2212	30-S2212	30-S2212		30-S2222	30-S2222	30-S2222	30-S2222	30-S2222	30-S2222
	6 AWG			30-S2212	30-S2212	30-S2212	30-S2212	30-S2212			30-S2222	30-S2222	30-S2222	30-S2222	30-S2222
	8 AWG				30-S2212	30-S2212	30-S2212	30-S2212				30-S2222	30-S2222	30-S2222	30-S2222
	10 AWG					30-S2212	30-S2212	30-S2212					30-S2222	30-S2222	30-S2222
	12 AWG						30-S2212	30-S2212						30-S2222	30-S2222
	14 AWG							30-S2212							30-S2222

Note: For combination 2 wire line (2-14 AWG Set Screw) and 1 wire load (6-14 AWG Crimp), use 30-B2216.

CRIMP

SET SCREW

In-Line Fused (Hot)



Description	Catalog Number
In-Line Breakaway, set screw; fused; 1 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S1212
In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C1212
In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C1216
In-Line Breakaway, crimp; fused; 1 wire line side, 6-14 AWG; 1 wire load side, 6-14 AWG	30-C1616

In-Line Non-Fused (Neutral)



Description	Catalog Number
In-Line Breakaway, set screw; non-fused; 1 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S1212N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C1212N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C1216N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 6-14 AWG; 1 wire load side, 6-14 AWG	30-C1616N

Non-Breakaway Kits (Hot)



Description	Catalog Number
Y-Tap Non-Breakaway, set screw; fused; 2 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S2212T
Y-Tap Non-Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C2012T
Y-Tap Non-Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C2016T
Y-Tap Non-Breakaway, crimp; fused; 2 wire line side, 6-8 AWG; 1 wire load side, 6-14 AWG	30-C2216T
Y-Tap Non-Breakaway, crimp; fused; 2 wire line side, 10-14 AWG; 1 wire load side, 6-14 AWG	30-C2616T

Y-Tap Fused (Hot)



Description	Catalog Number
Y-Tap Breakaway, set screw; fused; 2 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S2212
Y-Tap Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C2012
Y-Tap Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C2016
Y-Tap Breakaway, crimp; fused; 2 wire line side, 6-8 AWG; 1 wire load side, 6-14 AWG	30-C2216
Y-Tap Breakaway, crimp; fused; 2 wire line side, 10-14 AWG; 1 wire load side, 6-14 AWG	30-C2616
Combination Y-Tap Breakaway, fused; 2 wire line side, set screw, 2-14 AWG; 1 wire load side, crimp, 6-14 AWG	30-B2216

Y-Tap Non-Fused (Neutral)



Description	Catalog Number
Y-Tap Breakaway, set screw; non-fused; 2 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S2212N
Y-Tap Breakaway, crimp; non-fused; 2 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C2012N
Y-Tap Breakaway, crimp; non-fused; 2 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C2016N
Y-Tap Breakaway, crimp; non-fused; 2 wire line side, 6-8 AWG; 1 wire load side, 6-14 AWG	30-C2216N
Y-Tap Breakaway, crimp; non-fused; 2 wire line side, 10-14 AWG; 1 wire load side, 6-14 AWG	30-C2616N

Dual In-Line Fused (Both Hot)



Description	Catalog Number
Dual In-Line Breakaway, set screw; fused; 1 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S1212D
Dual In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C1212D
Dual In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C1216D
Dual In-Line Breakaway, crimp; fused; 1 wire line side, 6-14 AWG; 1 wire load side, 6-14 AWG	30-C1616D

Paired In-Line Fused (One Hot, One Neutral)



Description	Catalog Number
Paired In-Line Breakaway, set screw; one fused, one non-fused; 1 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S1212P
Paired In-Line Breakaway, crimp; one fused, one non-fused; 1 wire line side, 6-14 AWG; 1 wire load side, 6-14 AWG	30-C1616P
Paired In-Line Breakaway, crimp; one fused, one non-fused; 1 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-C1216P
Paired In-Line Breakaway, crimp; one fused, one non-fused; 1 wire line side, 2-4 AWG; 1 wire load side, 2-4 AWG	30-C1212P

One Wire Line/2 Wires Load (Hot)



Description	Catalog Number
In-Line Breakaway, set screw; fused; 1 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S1222
In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 2 wire load side, 6-8 AWG	30-C1222
In-Line Breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 2 wire load side, 10-14 AWG	30-C1226
In-Line Breakaway, crimp; fused; 1 wire line side, 6-14 AWG; 2 wire load side, 6-8 AWG	30-C1622
In-Line Breakaway, crimp; fused; 1 wire line side, 6-14 AWG; 2 wire load side, 10-14 AWG	30-C1626

One Wire Line/2 Wires Load (Neutral)



Description	Catalog Number
In-Line Breakaway, set screw; non-fused; 1 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S1222N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 2-4 AWG; 2 wire load side, 6-8 AWG	30-C1222N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 2-4 AWG; 2 wire load side, 10-14 AWG	30-C1226N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 6-14 AWG; 2 wire load side, 6-8 AWG	30-C1622N
In-Line Breakaway, crimp; non-fused; 1 wire line side, 6-14 AWG; 2 wire load side, 10-14 AWG	30-C1626N

2 Wires Line/2 Wires Load (Hot)



Description	Catalog Number
2-Pole Breakaway, set screw; fused; 2 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S2222
2-Pole Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 2 wire load side, 6-8 AWG	30-C2022
2-Pole Breakaway, crimp; fused; 2 wire line side, 2-4 AWG; 2 wire load side, 10-14 AWG	30-C2026
2-Pole Breakaway, crimp; fused; 2 wire line side, 6-8 AWG; 2 wire load side, 6-8 AWG	30-C2222
2-Pole Breakaway, crimp; fused; 2 wire line side, 6-8 AWG; 2 wire load side, 10-14 AWG	30-C2226
2-Pole Breakaway, crimp; fused; 2 wire line side, 10-14 AWG; 2 wire load side, 10-14 AWG	30-C2626

2 Wires Line/2 Wires Load (Neutral)



Description	Catalog Number
2-Pole Breakaway, set screw; non-fused; 2 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S2222N
2-Pole Breakaway, crimp; non-fused; 2 wire line side, 2-4 AWG; 2 wire load side, 6-8 AWG	30-C2022N
2-Pole Breakaway, crimp; non-fused; 2 wire line side, 2-4 AWG; 2 wire load side, 10-14 AWG	30-C2026N
2-Pole Breakaway, crimp; non-fused; 2 wire line side, 6-8 AWG; 2 wire load side, 6-8 AWG	30-C2222N
2-Pole Breakaway, crimp; non-fused; 2 wire line side, 6-8 AWG; 2 wire load side, 10-14 AWG	30-C2226N
2-Pole Breakaway, crimp; non-fused; 2 wire line side, 10-14 AWG; 2 wire load side, 10-14 AWG	30-C2626N



2-Pole Dual Fused (Both Hot)



Description	Catalog Number
Dual 2-Pole Breakaway, set screw; fused; 2 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S2222D

2-Pole Paired (One Hot/One Neutral)

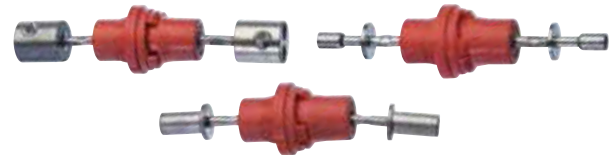


Description	Catalog Number
Paired 2-Pole Breakaway, set screw; one fused, one non-fused; 2 wire line side, 2-14 AWG; 2 wire load side, 2-14 AWG	30-S2222P

Y-Tap Dual Fused (Both Hot)



Description	Catalog Number
Dual, Y-Tap Breakaway, set screw; fused; 2 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-S2212D



Fuseholders (No Boot Included)

Description	Catalog Number
Fuseholder only, non-breakaway, set screw; fused; 1 wire line side, 2-14 AWG; 1 wire load side, 2-14 AWG	30-HS2
Fuseholder only, non-breakaway, crimp; fused; 1 wire line side, 2-4 AWG; 1 wire load side, 6-14 AWG	30-HC2
Fuseholder only, non-breakaway, crimp; fused; 1 wire line side, 6-14 AWG; 1 wire load side, 6-14 AWG	30-HC6

Breakaway Streetlight Connector & Splice Insulating Kits

- Safe and easy installation in five minutes or less
- No special equipment necessary – requires only a knife, wire stripper, hex tool and crimp tool
- Fewer parts than competitive brands for better 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)
- Spring-loaded contacts compensate for thermal expansion to maintain integrity of connection (breakaway models)



Application Guide

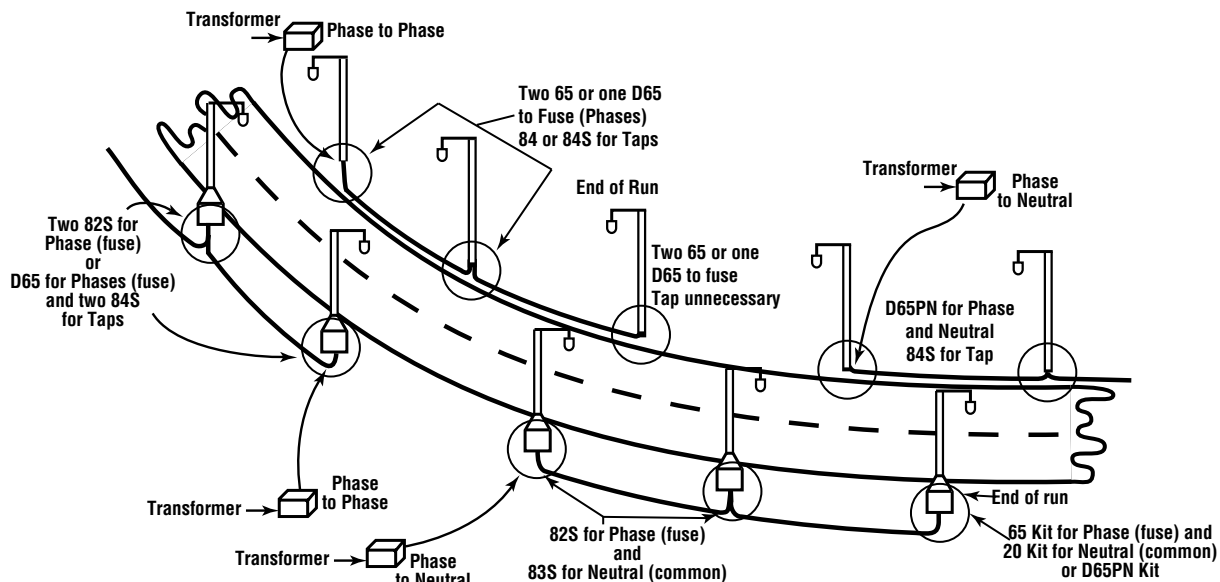
(Examples of Several Configurations)

For Poles with Transformer Bases, Standard Bases and Junction Boxes

Underground Feed Phase to Phase	
Configurations	Comments
D65 dual-in-line for phases and two 84S kits for taps	Recommended
Two 82S Y-Tap Kits for phases and taps	Cost effective
Underground Feed Phase to Neutral	
DP65PN dual-in-line for phase and neutral and two 84S kits for tap	Recommended configuration
One 82S Y-Tap Kit for phase and tap and one 83S Y-Tap Kit for neutral and tap	Cost effective

For Lights Mounted to Utility Poles, etc.

Overhead Feed	
Configurations	Comments
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.



Breakaway Streetlight Connector & Splice Insulating Kits

Model			Line Side				Load Side				
Application	Electrical Rating	Ordering Code	Insulation Dia. Range	Stranded* Conductor Size	Type	Ordering Code (choose 1)	Insulation Dia. Range	Stranded* Conductor Size	Type	Ordering Code (choose 1)	
Breakaway In-Line Kits											
In-Line Neutral Non-Fused Breakaway	30A, 600V	20 -	.120 - .430"	12 - 6 AWG	Copper Crimp	U -	.120 - .430"	12 - 6 AWG	Copper Crimp	U -	
In-Line Phase Fused Breakaway	1/10-30A, 600V	65 -		4 or 2 AWG	Copper Crimp	LC -		4 or 2 AWG	Copper Crimp	LC -	
Dual In-Line Phase Fused Breakaway	1/10-30A, 600V	D65 -		4 or 2 AWG	Aluminum Crimp	LA -		4 or 2 AWG	Aluminum Crimp	LA -	
Dual In-Line Phase & Neutral Fused Breakaway	1/10-30A Phase, 30A Neutral, 600V	D65PN -									
Breakaway Y-Tap Kits											
Set Screw Phase Fused Tap & Run	1/10-30A, 600V	82S -	.155 - .430"	10 - 2 AWG	Terminal Block with Set Screws Copper or Aluminum Conductors	ADB1 -	.120 - .430"	12 - 6 AWG	Copper Crimp	C	
Set Screw Neutral Non-Fused Tap & Run	30 Amp Line 30 Amp Load 600 Volt	83S -	.420 - .785"			EAFB1 -	.120 - .430"	4 or 2 AWG	Aluminum Crimp	LA	
Y-Splice Kits											
Set Screw Splice Tap & Run	30A, 600V	84S -	.155 - .430 .420 - .785"	10 - 2 AWG	Terminal Block w/set Screws	ADB1 EAFB1	.120 - .430"	10 - 2 AWG	Terminal Block Copper or Aluminum Conductors	N/A	

*For solid wire: 14-4 AWG, use codes U or C, 2 AWG, use codes LC or LA. 75°C/600 Volts Max.



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

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.**

Note: It is not necessary to use the load side ordering code if it is the same as the line side code, i.e., a 65U-U is ordered as a 65U.

Electrical Terminals, Crimp Connectors

The complete line of IDEAL crimp terminals, disconnects and splices offer the right product for any electrical system that might be encountered. From rings and spades to insulated disconnects, there's a product for any wire range. All insulated terminals are color-coded for easy identification and come in durable plastic packaging for easy storage.

- 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

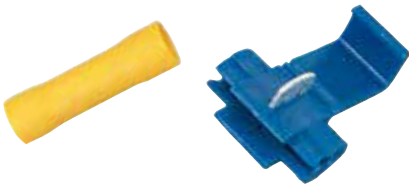
Rings & Forks



Disconnects



Splices



Durable plastic package for easy storage.

Ring Terminals



Wire Range	Stud Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm	In.	mm				
22 – 18 AWG	0,5 – 1,0mm ²	6	3,7mm	0.157	4,0mm	25	—	—
		8	4,3mm			25	—	—
		10	5,3mm			25	—	—
		1/4	6,4mm			25	—	—
16 – 14 AWG	1,5 – 2,5mm ²	6	3,7mm	0.177	4,5mm	25	—	—
		8	4,3mm			25	—	—
		10	5,3mm			25	1,000	84-2241
		1/4	6,4mm			25	—	—
12 – 10 AWG	4,0 – 6,0mm ²	8	4,3mm	0.248	6,3mm	25	—	—
		10	5,3mm			25	1,000	84-2341
		1/4	6,4mm			25	—	—
		5/16	8,4mm			25	—	—
		3/8	10,5mm			25	—	—

75° C/600 Volts max.



Wire Range	Stud Size		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm				
22 – 18 AWG	0,5 – 1,0mm ²	8	4,3mm	25	—	—
		10	5,3mm	25	—	—
16 – 14 AWG	1,5 – 2,5mm ²	6	3,7mm	25	—	—
		8	4,3mm	25	—	—
		10	5,3mm	25	1,000	84-0241
12 – 10 AWG	4,0 – 6,0mm ²	8	4,3mm	25	—	—
		10	5,3mm	25	1,000	84-0341
		1/4	6,4mm	25	—	—
8 AWG	8,0mm ²	10	5,3mm	25	500	84-0421
		1/4	6,4mm	25	—	—
		5/16	8,4mm	25	—	—
		3/8	10,5mm	25	—	—
		10	5,3mm	20	—	—
6 AWG	14,0mm ²	1/4	6,4mm	20	—	—
		5/16	8,4mm	20	—	—
		3/8	10,5mm	20	—	—
4 AWG	22,0mm ²	1/4	6,4mm	20	—	—
		5/16	8,4mm	20	—	—
		3/8	10,5mm	20	—	—

105°C/600 Volts max.

Spade Terminals



Wire Range	Stud Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.	
	AWG	mm	In.	mm					In.
22 – 18 AWG	0,5 – 1,0mm ²	6	3,7mm	0.157	4,0mm	25	83-7111	1,000	84-7111
		8	4,3mm			25	83-7121	—	—
		10	5,3mm			25	83-7131	—	—
16 – 14 AWG	1,5 – 2,5mm ²	6	3,7mm	0.177	4,5mm	25	83-7151	—	—
		8	4,3mm			25	83-7161	1,000	84-7161
		10	5,3mm			25	83-7171	1,000	84-7171
12 – 10 AWG	4,0 – 6,0mm ²	6	3,7mm	0.248	6,3mm	25	83-7201	—	—
		8	4,3mm			25	83-7211	—	—
		10	5,3mm			25	83-7221	500	84-7221
		1/4	6,4mm			25	83-7231	—	—

75° C/600 Volts max.



Wire Range	Stud Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	
	AWG	mm	In.	mm			In.
22 – 18 AWG	0,5 – 1,0mm ²	6	3,7mm	0.134	4,0mm	25	83-7011
		8	4,3mm			25	83-7021
		10	5,3mm			25	83-7031
16 – 14 AWG	1,5 – 2,5mm ²	6	3,7mm	0.161	4,5mm	25	83-7051
		8	4,3mm			25	83-7061
		10	5,3mm			25	83-7071
12 – 10 AWG	4,0 – 6,0mm ²	8	4,3mm	0.248	6,mm	25	83-7081
		10	5,3mm			25	83-7091
		1/4	6,4mm			25	83-7101

75° C/600 Volts max.



Spade Terminals



Non-Insulated	Wire Range		Stud Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm				
	22 – 18 AWG	0,5 – 1,0mm ²	6 8 10	3,7mm 4,3mm 5,3mm	0.157	4,0mm	25 25 25	83-6111 83-6121 83-6131	— — —	— — —
16 – 14 AWG	1,5 – 2,5mm ²	8 10	4,3mm 5,3mm	0.177	4,5mm	25 25	83-6161 83-6171	— 1,000	— 84-6171	
12 – 10 AWG	4,0 – 6,0mm ²	8 10 1/4	4,3mm 5,3mm 6,4mm	0.248	6,3mm	25 25 25	83-6211 83-6221 83-6231	— — —	— — —	

105° C/600 Volts max.

Disconnects



Vinyl Insulated Female	Wire Range		Tab Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm				
	22 – 18 AWG	0,5 – 1,0mm ²	.110 x .020	2,8mm x 0,5mm	0.150	3,8mm	25	83-9511	—	—
.187 x .020			4,75mm x 0,5mm	25			83-9541	—	—	
.250 x .032			6,35mm x 0,8mm	25			83-9571	—	—	
16 – 14 AWG	1,5 – 2,5mm ²	.110 x .020	2,8mm x 0,5mm	0.185	4,7mm	25	83-9521	—	—	
		.187 x .020	4,75mm x 0,5mm			25	83-9551	—	—	
		.250 x .032	6,35mm x 0,8mm			25	83-9581	500	84-9581	
14 – 12 AWG	2,5 – 4,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	83-9591	—	—	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	83-9601	500	84-9601	

75° C/600 Volts max.



Non-Insulated Female	Wire Range		Tab Size		Quantity	Cat. No.
	AWG	mm	In.	mm		
22 – 18 AWG	0,5 – 1,0mm ²	.110 x .020	2,8mm x 0,5mm	25	83-9411	
16 – 14 AWG	1,5 – 2,5mm ²	.110 x .020	2,8mm x 0,5mm	25	83-9421	
22 – 18 AWG	0,5 – 1,0mm ²	.187 x .020	4,75mm x 0,5mm	25	83-9441	
16 – 14 AWG	1,5 – 2,5mm ²	.187 x .020	4,75mm x 0,5mm	25	83-9451	
22 – 18 AWG	0,5 – 1,0mm ²	.250 x .032	6,35mm x 0,8mm	25	83-9471	
16 – 14 AWG	1,5 – 2,5mm ²	.250 x .032	6,35mm x 0,8mm	25	84-9481	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	25	84-9501	

105° C/300 Volts max. Not UL Listed.

Disconnects



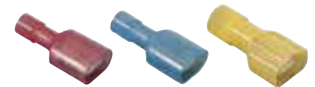
Vinyl Insulated Male	Wire Range		Tab Size		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm		
	22 – 18 AWG	0,5 – 1,0mm ²	.250 x .032	6,35mm x 0,8mm	0.150	3,8mm		
16 – 14 AWG	1,5 – 2,5mm ²	.250 x .032	6,35mm x 0,8mm	0.185	4,7mm	25	83-9981	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	83-9991	

75° C/300 Volts max.



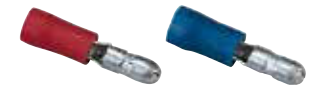
Nylon Fully-Insulated Female	Wire Range		Tab Size		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm				
	22 – 18 AWG	0,5 – 1,0mm ²	.250 x .032	6,35mm x 0,8mm	0.15	3,8mm				
16 – 14 AWG	1,5 – 2,5mm ²	.250 x .032	6,35mm x 0,8mm	0.185	4,7mm	25	83-9781	1,000	84-9781	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	84-9791	500	84-9791	

105° C/300 Volts max.



Nylon Fully-Insulated Male	Wire Range		Tab Size		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm		
	22 – 18 AWG	0,5 – 1,0mm ²	.250 x .032	6,35mm x 0,8mm	0.150	3,8mm		
16 – 14 AWG	1,5 – 2,5mm ²	.250 x .032	6,35mm x 0,8mm	0.185	4,7mm	25	83-9921	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	84-9931	

105° C/300 Volts max.



Vinyl Insulated Bullet	Wire Range		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm		
	22 – 18 AWG	0,5 – 1,0mm ²	0.150	3,8mm		
16 – 14 AWG	1,5 – 2,5mm ²	0.185	4,7mm	25	83-8011	

75° C/300 Volts max.



Vinyl Fully-Insulated Receptacles	Wire Range		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm		
	22 – 18 AWG	0,5 – 1,0mm ²	0.150	3,8mm		
16 – 14 AWG	1,5 – 2,5mm ²	0.185	4,7mm	25	83-8111	

75° C/300 Volts max.



Disconnects



Vinyl Insulated Multi-Stack	Wire Range		Tab Size		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm	In.	mm		
	22 – 18 AWG	0,5 – 1,0mm ²	.250 x .032	6,35mm x 0,8mm	0.15	3,8mm	25	83-9611
16 – 14 AWG	1,5 – 2,5mm ²	.250 x .032	6,35mm x 0,8mm	0.185	4,7mm	25	83-9621	
12 – 10 AWG	4,0 – 6,0mm ²	.250 x .032	6,35mm x 0,8mm	0.244	6,2mm	25	83-9631	

75° C/300 Volts max.



Non-Insulated Flag Female	Wire Range		Tab Size		Quantity	Cat. No.
	AWG	mm	In.	mm		
16 – 14 AWG	1,5 – 2,5mm ²	0.250 x .032	6,35 x 0,88mm	25	83-9401	

105° C/300 Volts max. Not UL Listed.



Adapter - Male to Female (2-1)*	Tab Size		Quantity	Cat. No.
	In.	mm		
0.250 x .032	6,35 x 0,88mm	25	83-9801	

105° C/300 Volts max. Not UL Listed.

Splices



Vinyl Insulated Butt	Wire Range		Max. Wire Ins. Dia.		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm	In.	mm				
22 – 18 AWG	0,5 – 1,0mm ²	0.157	4,0mm	25	83-9281	1,000	84-9281	
16 – 14 AWG	1,5 – 2,5mm ²	0.177	4,5mm	25	83-9291	1,000	84-9291	
12 – 10 AWG	4,0 – 6,0mm ²	0.248	6,3mm	25	83-9301	500	84-9301	

75° C/600 Volts max.



TERMINALS/CRIMPS

Splices



Tap	Wire Range		Color	Quantity	Cat. No.
	AWG	mm			
		22 – 18 AWG	0,5 – 1,0mm ²	Red	25
	16 – 14 AWG	1,5 – 2,5mm ²	Blue	25	83-3271
	12 – 10 AWG	4,0 – 6,0mm ²	Yellow	25	83-3281

75° C/600 Volts max.



Vinyl Insulated Parallel	Wire Range		Max. Wire Ins. Dia.		Quantity	Cat. No.
	AWG	mm	In.	mm		
		22 – 18 AWG	0,5 – 1,0mm ²	0.157	4,0mm	1,000
	16 – 14 AWG	1,5 – 2,5mm ²	0.177	4,5mm	1,000	84-9361
	12 – 10 AWG	4,0 – 6,0mm ²	0.248	6,3mm	500	84-9371

75° C/600 Volts max.



Non-Insulated Butt	Wire Range		Quantity	Cat. No.	Quantity	Cat. No.
	AWG	mm				
		22 – 18 AWG	0,5 – 1,0mm ²	25	83-9001	—
	16 – 14 AWG	1,5 – 2,5mm ²	25	83-9011	1,000	84-9011
	12 – 10 AWG	4,0 – 6,0mm ²	25	83-9021	500	84-9021
	8 AWG	8,0mm ²	25	83-9031	250	84-9031
	6 AWG	14,0mm ²	20	83-9041	—	—
	4 AWG	22,0mm ²	20	83-9051	—	—

105° C/600 Volts max. Not UL Listed.



Non-Insulated Parallel	Wire Range		Quantity	Cat. No.	Quantity	Cat. No.
	In.	mm				
		22 – 18 AWG	0,5 – 1,0mm ²	25	83-9071	—
	16 – 14 AWG	1,5 – 2,5mm ²	25	83-9081	1,000	84-9081
	12 – 10 AWG	4,0 – 6,0mm ²	25	83-9091	1,000	84-9091

105° C/600 Volts max. Not UL Listed.

Steel Crimp Connectors

- Designed for making fast, permanent, pressure-type connections
- Long-zinc-plated steel sleeves maximize contact area with conductors
- 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.
410	600V 18 – 10 AWG Min. 1 #14 & 1 #18 – Max. 2 #10 & 2 #14	Bag of 100	30-410
		Carton of 1,000	30-510
		Keg of 10,000	30-610
411	600V 18 – 8 AWG Min. 3 #12 – Max. 4 #10	Box of 50	30-411
		Carton of 1,000	30-511
412	600V 18 – 4 AWG Min. 1 #14 & 1 #16 – Max. 2 #8 & 1 #6	Box of 50	30-412
		Carton of 1,000	30-512

IDEAL hand crimp tools U.L. listed for Model 410, 411, 412: 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 and eliminates need for tape
- UL Listed to 486C 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.
415	Insulator for Model 410 Connectors. Can also be used on Buchanan 2006S & 2011S Copper Crimps	Box of 50	30-445
		Carton of 1,000	30-515
417	Insulator for Model 411 & 412 Connectors. Can also be used on Buchanan 2011S Copper Crimps	Box of 25	30-447
		Carton of 1,000	30-517

Pre-Insulated Crimp Connectors

- Compact design fits easily into tight locations
- Flared skirt protects against turned-back strands
- Beveled opening eases wire entry
- Tough UL 94V-2 flame-retardant shell rated at 105°C (221°F)



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

*1,000V maximum in fixtures and signs. Note: Connectors are transparent.

Splice Cap Crimp Connectors

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



Description	Wire Combination Range	Quantity	Cat. No.
Copper Crimp Connector	600V* 18 to 10 AWG Min. 2 #18, Max. 4 #12	Bag of 100	2006S
		Bag of 1,000	2006SB
	600V* 14 to 4 AWG Min. 2 #10, Max. 2 #6	Bag of 50	2011S
		Bag of 500	2011SB

*1,000V 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)



Description	Quantity	Cat. No.
For use on Connector Model 2006S	Box of 100	2007
	Bag of 1,000	2007B
For use on Connector Model 2011S	Box of 50	2014
	Bag of 500	2014B

Set Screw Wire Connectors

- Eliminates need for restripping wire each time connection is disturbed
- Solid brass sleeves
- 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.
10	300V 22 thru 10 AWG Min. 1 #20 w/1 #22 – Max. 2 #14 w/1 #16	Box of 100	30-210
		Carton of 1,000	30-310
11	600V 22 thru 10 AWG Min. 1 #14 w/1 #20 – Max. 3 #14 w/2 #18	Box of 100	30-211
		Carton of 1,000	30-311
22	600V 20 thru 10 AWG Min. 1 #16 w/3 #18 – Max. 2 #10 w/1 #12	Box of 100	30-222
		Carton of 1,000	30-322

Set Screw Holder

- Convenient tool for holding and tightening set-screw connectors
- Accepts IDEAL Models 11 and 22 set-screw connectors



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

Terminal Strips, Blocks & Accessories

Terminals

IDEAL Terminal and Barrier Strips are designed and manufactured to be rugged, reliable and easy to use. A thermoplastic base and corrosion-resistant screws and hardware provide extended service life. Optional accessories provide convenient, versatile application. Available in a wide variety of circuit configurations, electrical ratings and center-spacing, an IDEAL terminal strip for virtually every job.



89-200 Series Terminal Strips

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

89-400 Series Terminal Strips

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

89-600 Series Barrier Strips (12-Circuit)

- Modular 12-circuit design can be cut into sections or stacked end to end
- Wire ranges from 8 through 22 AWG Cu

89-300 Series Terminal Strips

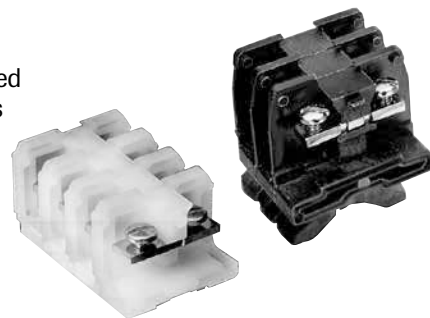
- .375" (9.52mm) center spacing
- Accepts wire sizes from 14 through 22 AWG Cu
- #6-32 Philslot, zinc-plated steel terminal screws
- Recommended torque: 9 in. - lb.

89-500 Series Terminal Blocks

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

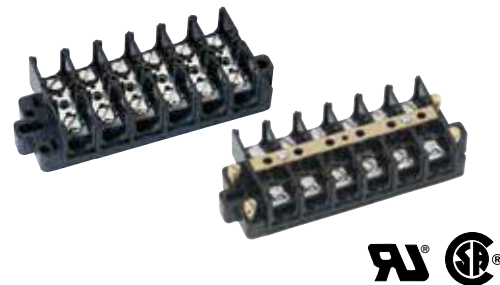
Terminal Blocks

- Wide range of quality features, configurations and ranges to solve any wiring need
- Quickly connects/disconnects for maintenance and troubleshooting applications
- Versatile types available in one piece, sectional and modular blocks
- Application-friendly housing materials: Nylon, Phenolic and Polypropylene



Terminal Strips / Blocks

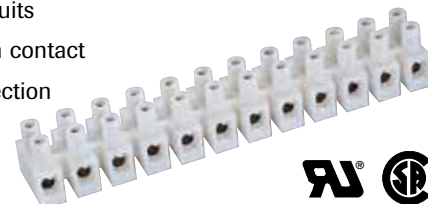
- Heavy-duty, corrosion-resistant screws, surface plates and optional hardware
- Accessory hardware provides a variety of termination options
- Rugged polyester thermoplastic base (UL Rated 94V-0)
- Operating temperature rated from 130°C (260°F) to -40°C (-40°F)
- UL Recognized (E82048) and CSA Certified (LR15364)
- Ratings:
 - 200 Series 30A/600V UL Listed, CSA Certified (30A/250V when used with optional quick connects)
 - 300 Series 30A/300V UL Listed, 15A/150V CSA Certified (15A/125V when used with optional quick connects)
 - 400 Series 30A/300V UL Listed, CSA Certified
 - 500 Series 60A/600V UL LISTED, CSA CERTIFIED (Max. rating achieved with #6 AWG Cu wire crimped to ring terminals)



Series	Poles							
	2	3	4	6	8	10	12	
200 Series	89-202	89-203	89-204	89-206	89-208	89-210	89-212	
300 Series	89-302	—	89-304	89-306	89-308	89-310	89-312	
400 Series	89-402	—	89-404	89-406	89-408	89-410	89-412	
500 Series	Standard Block	—	—	89-504	89-506	89-508	—	89-512
	Shorting Block	—	—	89-505	89-507	89-509	—	89-513

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)
- Ratings: Electrical ratings from 10A/400V to 50A/600V UL Listed, CSA Certified



Electrical Ratings	Wire Range	Torque in. - lb.	Cat. No.
20A/300V UL 20A/600V CSA	22 - 12 AWG 20 - 18 AWG	3.5	89-608
30A/300V UL 30A/600V CSA	22 - 10 AWG 18 - 14 AWG	4.4	89-610
35A/300V UL/CUL	22 - 10 AWG	7.0	89-612
50A/300V UL/CUL	20 - 8 AWG	12.0	89-614



Quick Connects

- Allows fast, flexible circuit changes



For use with Terminal Strip Series:	Tab size (in.)	Quantity	Flat-None Cat. No.	Flat-Flat Cat. No.
89-300	.187 x .020	10	89-314	89-314
89-200 & 89-400	.250 x .031	10	89-414	89-417

Jumpers

- Provides easy connection of multiple circuits



For use with Terminal Strip Series	Center Spacing (in.)	Quantity	Flat Slip-on Cat. No.	Over Barrier Slip-on Cat. No.	Flat 12-Circuit Cat. No.
89-200	.562	10	89-229	89-224	—
		100	89-230	—	—
89-300	.375	10	89-323	89-324	—
		100	89-330	—	—
89-400	.437	10	89-423	89-424	—
		100	89-430	—	—
89-500	.625	2	—	—	89-525

100 Series Terminal Blocks — 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.

- Saves installation time and cost – tubular clamp contacts supplied with captive screws backed out
- 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
- 48 terminals/ft.



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Nylon	125°C (257°F)	UL94V2	5/16 in.	6-9	20A/600V	30-12 AWG Solid & Stranded	Channel Mount (Dovetail Base)	115
							Channel Mount (Dovetail Base)	120 (end section)
					Direct Mount (Flat Base)		125	
					Direct Mount (Flat Base)		130 (end section)	

900 Series Terminal Blocks — Medium Duty

- Flat base models mount directly to surfaces; dovetail base models mount on standard 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
- Materials
 - Contact: Copper Alloy, Zinc Plated
 - Screw: Steel, Zinc Plated



Housing	Max. Service Temp.	Flammability Rating	Ampacity	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Polyester (Gray)	150°C (302°F)	UL94V-0	15A	11/32 in.	12	50A/600V	8-18 AWG	Direct Mount (Flat Base)	921
						15A/600V	14-22 AWG	Channel Mount (Dovetail Base)	0921
			50A		8	50A/600V	8-22 AWG	Direct Mount (Flat Base)	924
							8-22 AWG	Channel Mount (Dovetail Base)	0924
			30A		8	30A/600V	10-22 AWG	Direct Mount (Flat Base)	925
							10-22 AWG	Channel Mount (Dovetail Base)	0925
			—		—	—	—	Direct Mount (Flat Base)	930 (end section)
			—		—	—	—	Channel Mount (Dovetail Base)	0930 (end section)

200 Terminal Blocks — Nylon Heavy Duty Series

- Only one end section needed per block assembly
- Readily identifiable circuits – mark directly on painted marking surface or use removable marking strip
- Two-way flat-base models surface mount directly to the panel or snap-on miniature channel; dovetail base models mount on standard channel
- Sections snap-fit with Phenolic Heavy Duty, Intermediate Heavy Duty and Fuse blocks
- 138 circuits per 6 ft. length
- Materials
 - Contact: Copper Alloy, Zinc Plated
 - Screw: Steel Plated



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Nylon, Type 6/6 unfilled	125°C (257°F)	94V-2 (per UL94)	1/2 in.	35	35A/600V	22-10 AWG	Direct Mount (Flat Base)	241
							Channel Mount (Dovetail Base)	0241
					85A/600V	18-4 AWG	Direct Mount (Flat Base)	242
							Channel Mount (Dovetail Base)	0242
				65A/600V	18-6 AWG	Direct Mount (Flat Base)	243	
						Channel Mount (Dovetail Base)	0243	
				—	—	—	Direct Mount (Flat Base)	250 (end section)
				—	—	—	Channel Mount (Dovetail Base)	0250 (end section)

200 Terminal Blocks — Phenolic Heavy Duty Series

- Ideal for high temperature, high current applications
- 122 circuits per 6 ft. length
- Sections snap-fit with Nylon Heavy-Duty, Intermediate Heavy-Duty and Fuse Blocks
- Materials
 - Contact: Copper Alloy, Zinc Plated
 - Screw: Steel Plated



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Phenolic, Filled	150°C (302°F)	94V-1 (per UL94)	1/2 in.	12	35/600V	22-10 AWG	Direct Mount (Flat Base)	221
							Channel Mount (Dovetail Base)	0221
				35	85/600V	18-4 AWG	Direct Mount (Flat Base)	222
							Channel Mount (Dovetail Base)	0222
				12	65A/600V	18-6 AWG	Direct Mount (Flat Base)	223
							Channel Mount (Dovetail Base)	0223
				—	—	—	Direct Mount (Flat Base)	230 (end section)
				—	—	—	Channel Mount (Dovetail Base)	0230 (end section)

TERMINAL BLOCKS

800 Series Terminal Blocks — Nylon Intermediate Heavy Duty

- 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
- Snap-fit with Heavy-Duty Nylon and Phenolic and Fuse Blocks
- 92 circuits per 6 foot length
- Materials
 - Contact: Copper
 - Screw: Steel Zinc-Plated



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Nylon, Type 6/6 unfilled	125°C (257°F)	94V-2	11/16 in.	50	150A/600V	12 to 1/0	Two-Way Mounting Base	824
						—	End Section	830

400 Series Terminal Blocks — Phenolic Ultra Heavy-Duty - 250 KCMIL (MCM)

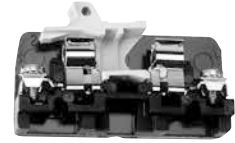
- Tubular screw contact style for maximum electrical rating
- Block mounts directly on flat surface or standard channel
- Only one end section needed per block assembly
- Readily identifiable circuits – write directly on painted marking area or use removable vinyl marking strip
- Hex socket screws allow maximum torque when using large wire sizes
- High current capacity snap-fit sectional blocks do not snap-fit with other block styles
- 57 circuits per 6 foot length
- Materials
 - Contact: Copper
 - Screw: Steel-Plated



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Phenolic, Filled, Flame Retardant	150°C (302°F)	94V-1 (per UL94)	1 in.	200	255A/600V	#14-2/0	Two-Way Mounting Base	426
				375		#6-250 KCMIL/MCM	Two-Way Mounting Base	427
				—	—	—	End Section	430

300 Series 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 quickly – switch-action fuse blocks open circuits before fuse can be removed or installed
- 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
- 91 circuits per 6 foot length
- Materials
 - Contact: Copper Alloy
 - Screw: Steel-Plated



Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.		
Phenolic, Filled, Flame Retardant	150°C (302°F)	94V-1 (per UL94)	11/32 in.	10	25A/600V	22-8AWG	Direct Mount (Flat Base)	351		
							Channel Mount (Dovetail Base)	0351		
			1/2 in.			18-8 AWG	Direct Mount (Flat Base)	358		
							Channel Mount (Dovetail Base)	0358		
						—	—	Direct Mount (Flat Base)	352	
								Channel Mount (Dovetail Base)	0352	
			—			—	—	—	Direct Mount (Flat Base)	330 (end section)
			—			—	—	—	Channel Mount (Dovetail Base)	0330 (end section)

100 Series Terminal Blocks — 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 vibration-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
- 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
- Materials
 - Contact: Copper/Copper Alloy
 - Screw: Steel-Plated



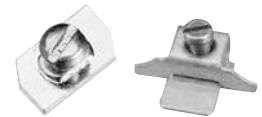
Housing	Max. Service Temp.	Flammability Rating	Wire Strip Length	Torque (in. lbs.)	UL Rating	Wire Range	Mounting Style	Cat. No.
Phenolic, Filled, Flame Retardant	150°C (302°F)	94V-1 (per UL94)	1/2 in.	20	50A/600V	18-8 AWG	Direct Mount	B102
							Direct Mount	B104
							Direct Mount	B106
							Direct Mount	B-108
							Direct Mount	B112

Mounting Channels



Mounting Channels	Length	Cat. No.	For use with:
Miniature Channel	3 ft.	12	Heavy-Duty (200 Series) Miniature (100 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. 3ft.	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



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)

Jumpers



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

B-TAP[®] Insulation-Piercing Tap Connectors

B-TAP[®] Insulation Piercing Connectors

Safe, dependable and easy. No other connector offers as much as the Buchanan B-TAP[®] Insulation Piercing Connector. A breakaway torque nut guarantees a perfect connection every time. The grease-filled rubber end caps provide superior water and corrosion resistance, while the insulation-piercing design eliminates downtime and power interruptions.

That translates into a 60% installed cost savings compared to split bolts. Installation is easy; all you need is a standard socket or wrench. The exclusive breakaway torque nut guarantees a perfect connection every time. It simply snaps off when UL torque requirements are met. No more guesswork! B-TAP[®] Connectors can be safely installed on energized systems, eliminating power interruptions and downtime.



B-TAP[®] Connectors...EASY AS 1, 2, 3.

1. Select proper B-TAP[®] connector.
2. Position cables. No need to turn off power.
3. Tighten breakaway torque nut with a standard socket or wrench.

To determine the most appropriate B-TAP[®] connector for a specific main and tap combination, see chart.

Wire Range Chart

Cat. No.	Main	Tap	Wire Size																	
			14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	350	400	500	750
BTC1/0-10	1/0 - 8	2 - 10																		
	2/0 - 4	10 - 14																		
BTC2/0-14	4/0 - 2	4/0 - 4																		
	4/0 - 3	2 - 10																		
BTC4/0-10	4/0 - 2	2/0 - 6																		
	250 - 1	4/0 - 4																		
BTC250-4	350 - 1/0	350 - 1/0																		
	500 - 2/0	4/0 - 4																		
BTC500-4	500 - 4/0	350 - 1/0																		
	750 - 3/0	10 - 14																		
BTC500-1/0	750 - 250	500 - 250																		

Full-line is 600V dual-rated, 194°F (90°C)

Conductor Range		Voltage Rating	Socket Size (Inches)	Torque (In. Lbs.)	No. of Bolts	Cat. No.
Run	Tap					
1/0-8	2-10 ¹	600V	1/2	80	1	BTC1/0-10
2/0-4	10-14 ²	600V	1/2	80	1	BTC2/0-14
4/0-2	4/0-4	600V	1/2	160	1	BTC4/0-2
4/0-3	2-10 ³	600V	1/2	125	1	BTC4/0-10
4/0-2	2/0-6	600V	1/2	160	1	BTC4/0-6
250-1	4/0-4	600V	1/2	160	1	BTC250-4
350-1/0	350-1/0	600V	5/8	330	2	BTC350-1/0
500-2/0	4/0-4	600V	5/8	330	2	BTC500-4
500-4/0	350-1/0	600V	5/8	330	2	BTC500-1/0
750-3/0	10-14 ⁴	600V	1/2	80	1	BTC500-14
750-250	500-250	600V	5/8	330	2	BTC750-250

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



TOOLS & SUPPLIES

Wire Fishing

Fish Tapes	B-4
Wire Pulling Lubricants.....	B-9
Pulling Supplies	B-13

Benders

Iron / Aluminum	B-17
-----------------------	------

Wire Stripper/Cutters

Wire Strippers.....	B-19
Wire Cutters	B-22

Pliers	B-26
---------------------	------

Hand Tools

Crimp	B-29
Knives	B-32
Saws.....	B-33

Cable Cutters

Ratcheting	B-35
PowerBlade™ Cable Cutters...	B-36

Screwdrivers

Twist-a-Nut™ Screwdrivers/ Nutdrivers	B-38
Cushioned-Grip.....	B-41
Nutdrivers.....	B-44

Industrial Bits	B-47
------------------------------	------

Insulated Tools

Kits.....	B-51
Nutdrivers.....	B-52
Screwdrivers	B-53
Tools	B-53

Tool Carriers/Pouches

Leather	B-57
Fabric.....	B-59

Kits	B-60
-------------------	------

Cutting Supplies

Step Bits.....	B-64
Hole Cutters.....	B-65
Hole Saws.....	B-66
Flex Bits.....	B-69
Wood Boring Bits.....	B-71
Augers.....	B-72
Recip Blades.....	B-75

Wire Management

Cable Ties.....	B-78
Staples.....	B-85
Wire Markers.....	B-87
Switches.....	B-89

Heat Shrink

Thermo-Shrink® Heat Shrink..	B-97
Heat Guns	B-101

Lockout/Tagout

Kits.....	B-104
Breaker Lockouts	B-107
Padlocks.....	B-111
Tags	B-112
Signs	B-113
Tapes.....	B-114

Commutator Maintenance	B-127
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PROFESSIONAL QUALITY, INNOVATIVE SOLUTIONS

When it comes to quality, performance and durability, IDEAL is the professional choice for tools, cutting tools, fish tapes, benders and lubes. The community of professionals know what it takes to succeed in today's electrical world and IDEAL fills those needs with high-quality innovative solutions. The expansion of the IDEAL U.S. manufacturing and engineering supported by strategic international facilities has been providing professional electricians with quality tools since 1916.



Wire Fishing

Material

Blued Steel™



- Laser etched in 12 in. increments to provide instant conduit length.
- Stiffer for long runs
- Highest grade carbon steel
- Tensile strength 1,600 lbs.

Gold-Fish®



- Brass-plated coiled steel
- Kink proof

Stainless Steel



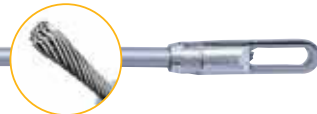
- Laser etched in 12 in. increments to provide
- Tensile strength 1,600 lbs.

S-Class®



- Non-conductive tape for use around live circuits
- Omni-directional pushing
- Pulling strength 500 lbs.

Zoom™



- 19 strands of stainless steel
- Ultra hard nylon jacket adds slipperiness, protects cables and user's hands
- Pulling strength 1,000 lbs.

Volt-Guard



- Non-conductive tape for use around live circuits
- Pulling strength 350 lbs.

Cases

Tuff-Grip™ Pro

- Durable case takes up to 20 ft. drop without breaking
- Full-perimeter handle band helps keep dirt and moisture out
- Superior pull-out and rewind characteristics



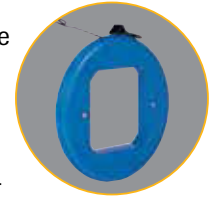
Rapid-Pak®

- Inner rotating reel with winding knob for increased labor savings
- Funneled tape opening reduces kinking and tape breakage
- Reversible, hinged knob for right or left handed rewinds



Thumb Winder™

- Convenient 7 in. size easy tool bag storage
- Durable impact resistant ABS case
- Easy-to-use thumb-operated rewind

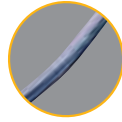


⚠ WARNING

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.



Blued-Steel™ Fish Tapes

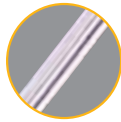


- Laser etched in 12" increments to provide instant conduit length
- High column strength for longer runs
- Non-oily finish resists rust

Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Thumb-Winder™	Replacement Tapes (No Case)
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	—	31-004
60	1/8 in. x .060 in.	12 in.	Formed hook	31-055	—	31-035
120	1/8 in. x .060 in.	12 in.	Formed hook	31-056	—	31-036
240	1/8 in. x .060 in.	12 in.	Formed hook	31-057	—	31-038
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.	None	Formed hook	—	—	31-052
400	1/4 in. x .060 in.	None	Formed hook	—	—	31-2128
—	1/4 in. x .060 in.	None	Formed hook	—	—	31-2982*

*Bulk roll 750 lbs. (approximately 12,000 ft.)

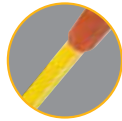
Stainless Steel Fish Tapes



- Laser etched in 12" increments to provide instant conduit length
- Tape will not 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 (No Case)
120	1/8 in. x .060 in.	12 in.	Formed hook	31-066	—
240	1/8 in. x .060 in.	12 in.	Formed hook	31-067	31-074

S-Class® Fiberglass Fish Tapes



- Superior tip design provides optimal strength and reduces wire stress during pulling
- Smooth nylon jacket provides great handling around bends

Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes (No Case)
50	3/16 in. diameter	12 in.	Non-Conductive Eyelet	31-086	31-200
100	3/16 in. diameter	12 in.	Non-Conductive Eyelet	31-087	31-201
200	3/16 in. diameter	16 in.	Non-Conductive Eyelet	31-088	31-202

S-Class® Fish Tapes

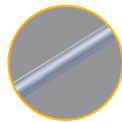
- Non-conductive tape for use around live circuits
- Structural glass core gives you a more durable fiberglass tape



Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Rapid-Pak®	Replacement Tapes (no case)
50	3/16 in. diameter	12 in.	Leader	31-060	31-187	31-150
50	3/16 in. diameter	12 in.	Metal 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.	Metal 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.*	Metal Eyelet	31-065	31-208	31-165

Zoom™ Fish Tapes

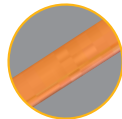
- Great for hard to navigate conduit with multiple bends
- Nylon jacket protects the stainless steel core while adding to the slipperiness of Zoom™



Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes (No Case)
50	3/16 in. diameter	12 in.	Metal Eyelet	31-090	31-091
100	3/16 in. diameter	12 in.	Metal Eyelet	31-092	31-093
200	3/16 in. diameter	16 in.*	Metal Eyelet	31-096	—

Volt-Guard Fish Tapes

- Non-conductive tape for use around live circuits
- Elliptical design gives the Volt-Guard greater pushing power



Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes (No Case)
60	.1875 in. x .094 in.	12 in.	Non-Conductive Eyelet	31-542	31-552
120	.1875 in. x .094 in.	12 in.	Non-Conductive Eyelet	31-544	31-554

Gold-Fish® Fish Tapes

- Ultra-flexible tape for hard-to-navigate areas
- Brass-plated coils resist rust
- No “memory” – hangs straight after being coiled for long periods



Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes (No Case)
50	3/16 in. diameter	12 in.	Metal Eyelet	31-144	31-141

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 Tapes	31-158
Replacement leaders (4) for S-Class® Fish Tapes	31-159
Replacement eyelets (2) for Zoom™ Fish Tapes	31-094
Die Set Only (for those who already have a Crimpmaster™ Crimp Tool)	31-166

Fish Tape Leaders

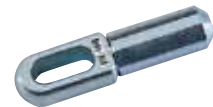
- Guides fish tape around bends in conduit
- Handles up to six 10 AWG bare wires
- Pulls up to 500 lbs.



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 tapes
- Eyelet holds up to four 10 AWG bare wires



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

Tuff-Grip™ Pro Accessories

- Replacement includes: Fish Tape Case (2 halves) and Handle (1)



Description	Cat. No.
Fish Tape Parts Kit	KB-0173

Screws not included, must be ordered separately.

Fish Tape Tip Replacement Kits

- Easy to apply



Description	Cat. No.
Volt-Guard Repair Kit, includes two eyelets and adhesive	31-541
Non-Conductive S-Class® Fish Tape Repair Kit	31-203

Tuff-Rod™ Regular Flex 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
- 1/4 in. white fiberglass
- Extra stiffness for added control when maneuvering wires



Description	Length	Width Thickness	Sections	Cat. No.
Fixed bullet nose and threaded J hook	12 ft. total	1/4 in.	3 ea. 4 ft.	31-611
Fixed bullet nose and threaded bullet nose	24 ft. total	1/4 in.	4 ea. 6 ft.	31-612
Replacement Rods	4 ft. x 12	1/4 in.	12 ea. 4 ft.	31-643
Replacement Rods	6 ft. x 12	1/4 in.	12 ea. 6 ft.	31-644

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



Description	Length	Width Thickness	Sections	Cat. No.
Fixed bullet nose and threaded J hook	12 ft. total	3/16 in.	3 ea. 4 ft.	31-631
Fixed bullet nose and threaded bullet nose	30 ft. total	3/16 in.	5 ea. 6 ft.	31-631
Replacement Rods	4 ft. x 12	3/16 in.	12 ea. 4 ft.	31-647
Replacement Rods	6 ft. x 12	3/16 in.	12 ea. 6 ft.	31-648

Tuff-Rod™ 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



Wire Lubricants & Accessories

Commercial Wire Pulling

Finished Construction	New Construction
Indoors/Outdoors	
40°F - 120°F 4°C - 49°C	
Up to 75 ft. 8 hrs.	Up to 1,200 ft. 24 hrs.
Use: ClearGlide®	Use: Yellow 77® and Yellow 77® Plus

Utility Wire Pulling

Indoors or Outdoors	Outdoors Only	Outdoors	Indoors or Outdoors
40°F - 120°F 4°C - 49°C	-28°F - 40°F -33°C - 4°C	40°F - 120°F 4°C - 38°C	40°F - 140°F 4°C - 82°C
Up to 250 ft. 24 hrs.	Up to 250 ft. 72 hrs.	Up to 250 ft. 24 hrs.	Up to 250 ft. 24 hrs.
Use: Aqua-Gel® II	Use: Aqua-Gel® CW	Use: Aqua-Gel® IIP	Velocity™

Selection Guide

	ClearGlide® Wire Pulling Lubricant	Yellow 77® Wire Pulling Lubricant	Yellow 77® Plus Wire Pulling Lubricant	Aqua-Gel® II Wire Pulling Lubricant	Aqua-Gel® CW Wire Pulling Lubricant	Aqua-Gel® IIP Wire 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*	.23	.17	.16	.19	.19	.19	.16
Stability 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 NEETRAC, an independent testing laboratory affiliated with The Georgia Institute of Technology.

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

This formula 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

WIRE PULLING LUBRICANTS

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 present
- Remains stable in high temperatures – usable from 32°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 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

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 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



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 ranges – usable from 32°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
55-gal. Drum	31-2143

Aqua-Gel® II Cable Pulling Lubricant

- Polymer-based formula provides maximum tension reduction in high-stress electrical and communication 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



Description	Cat. No.
1-qt. Squeeze bottle	31-378
1-gal. Bucket	31-371
5-gal. Bucket	31-375
55-gal. Drum	31-3855

Aqua-Gel® IIP Cable Pulling Lubricant

- Features the same excellent qualities as Aqua-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

Velocity™ Wire Pulling Lubricant

- High cling factor
- Maximum friction reduction
- Specification grade
- Compatible with all popular cable types
- Temperature stable
- 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

Noalox® Anti-Oxidant

- Anti-oxidant 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 minimize further oxidation
- For use with pressure-type wire connectors including lugs, taps, service entrances and split-bolts
- Reduces galling and seizing when applied on aluminum conduit joints promoting 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

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	Quantity	Cat. No.
1 lb. Block	Carton of 10	31-601
5 lb. Block	Carton of 10	31-605



Valu-Line™ Pull Line

- White with gray 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	Length	Cat. No.
Valu-Line™ Pull-Line	190 lbs.	6,500 ft./ Bucket	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	Length	Cat. No.
Powr-Fish® Pull-Line	210 lbs.	6,500 ft./ Bucket	31-340
Powr-Fish® Pull-Line	210 lbs.	500 ft./ Canister	31-348

Powr-Fish® Pull Line

- White with red tracer for easy identification
- 500 lb. tensile, our highest tensile-rated pull-line
- 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	Length	Cat. No.
Powr-Fish® Pull-Line	500 lbs.	2,200 ft./ Bucket	31-344

3-in-1 Premise MULETAPE®

- Reduces installation time and saves money on premise jobs
- Thread, measure and pull with single product
- Imprinted with sequential footage or meter markings
- Fewer installation steps, significant material and labor savings



Description	Pulling Strength	Tape Width	Length	Cat. No.
3-in-1 Premise MULETAPE®	400 lb.	1/4 in.	4,500 ft./ Bucket	31-314
	1,800 lb.	1/2 in.	1,300 ft./ Bucket	31-315

MULETAPE® is a registered trademark of NEPTCO, INC.

PULLING SUPPLIES

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
- Will not rot or mildew



Description	Length	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



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

† Eye splice on working end.



PULLING SUPPLIES

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



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



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



Benders

- Available in ductile and aluminum heads
- 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 bending system



Handles

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



Ductile Iron Benders

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



Conduit Type and Size	Cat. No. (head only)	Cat. No. (handle only)	Cat. No. (head and handle)
1/2 in. EMT	74-001	74-019	74-026
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-002	74-019	74-027
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-003	74-020	74-028
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-006	74-021	74-034

Aluminum Benders

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



Conduit Type and Size	Cat. No. (head only)	Cat. No. (handle only)	Cat. No. (head and handle)
1/2 in. EMT	74-031	74-019	74-046
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-032	74-019	74-047

BenderBoot™

- Grooved patented foot provides stability and leverage
- Santoprene® tread and hand grip provides support for saddle and offset bends
- Easy push-on assembly to 1/2 in. and 3/4 in. Bender handles



Description	Cat. No.
BenderBoot™	74-037

Santoprene® is a registered trademark of Exxon Mobil Corporation.

Pocket Bender Guide

- Convenient pocket-sized reference guide
- Includes simple, concise bending techniques for precision stubs, back-to-back, offset and saddle bends



Description	Cat. No.
Pocket Bender Guide	P-100



Wire Strippers/Wire Cutters



Kinetic® Reflex™ T®-Stripper Wire Stripper

- Thumb Valley™ protection, Pocket Locket locking hasp, bolt cutters
- Ergonomic handles, textured sleeves

T®-Stripper Wire Stripper

- Compact, lightweight and easy to use
- Precision-ground blades, built in looping holes, wire cutters, plier nose
- Straight handles



Kinetic® Super Wire Stripper

- Thumb Valley™ protection, Pocket Locket locking hasp, bolt cutters
- Curved handles, textured sleeves



Reflex™ Premium T®-Stripper Wire Stripper

- Extended texture
- Ergonomic handles



Reflex™ Super T®-Stripper Wire Stripper

- Locking pawl, bolt cutting
- Extended texture
- Ergonomic handles



T[®]-Stripper Wire Strippers

- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion-resistant, black oxide finish
- Tough steel construction



45-120

Description	Solid	Stranded	Cat. No.
T [®] -5 T [®] -Stripper Wire Stripper	10-18 AWG	12-20 AWG	45-120
T [®] -6 T [®] -Stripper Wire Stripper	14-24 AWG	16-26 AWG	45-121
T [®] -7 T [®] -Stripper Wire Stripper	22-30 AWG	24-32 AWG	45-125
T [®] -8 T [®] -Stripper Wire Stripper	6-14 AWG	8-16 AWG	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

Kinetic[®] Reflex[™] T[®]-Stripper Wire Strippers

- Non-slip 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 accurate



45-915

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

Kinetic[®] Super Wire Strippers

- Non-slip 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 accurate



45-715

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



Reflex™ Premium & Super T®-Stripper Wire Strippers

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



45-615

Description	Solid	Stranded	Cat. No.
Reflex™ Super T®-Stripper Wire Stripper	8-16 AWG	10-18 AWG	45-615
	8-14 AWG	8-16 AWG	45-618
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper Wire Stripper	12-2 and 14-2 AWG	—	45-621
Reflex™ Premium T®-Stripper Wire Stripper	10-18 AWG	12-20 AWG	45-415
	14-24 AWG	16-26 AWG	45-416
	22-30 AWG	24-32 AWG	45-417
	6-14 AWG	8-16 AWG	45-418
Reflex™ Premium T®-Stripper – Metric	0,5mm ² -4,0mm ²		45-425-341

T-90™ Wire Stripper

- Patented T-90™ bent nose strippers are designed for easy long reach into confined electrical spaces
- Quickly removes jacket with precision cut and straight pull
- Less fatigue with straight pull verses the side twist wrist motion
- Corrosion-resistant, black oxide finish
- Tough steel construction with sheer-type blades
- Contoured, cushion-grip handles for ergonomic comfort



Description	Solid	Stranded	Cat. No.
T-90™ Bent Nose 12-2 NM Stripper, 12-2 Solid & 18 AWG Stranded	12 - 2 AWG	18 AWG	45-649

NM Cable Dual-Hole T®-Stripper Wire Strippers

- Stripping holes for stripping two 2 AWG or two 14 AWG wires simultaneously
- Ability to strip both conductor wires of NM cable at one time
- Locking pawl for safe storage



45-247

Description	Solid	Cat. No.
Premium T®-14 T®-Stripper Wire Stripper	12 or 14 AWG	45-247
14/2 NM Cable T®-Stripper Wire Stripper		45-248
12/2 NM Cable T®-Stripper Wire Stripper		45-249

1000V Insulated Wire Stripper

- UL Classified
- High visibility, double insulated handles provide safety, comfort and control



Description	Cat. No.
1000V Insulated Wire Stripper	45-9120

7-in-1 Stripper

- Versatile, seven-function tool features precision-ground stripping blades, cushioned grips and plier nose
- 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, NM wire and U.F. wire to 8 AWG



Description	Solid	Stranded	Cat. No.
7-in-1 Stripper	8 - 16 AWG	10 - 18 AWG	45-649

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



Description	Cat. No.
V-Notch Stripper	45-101

Lil' Ripper Stripper™

- Rips outer jacket of NM cable cleanly and quickly
- Clips outer sheathing to remove excess wire jacket
- V-Notch strips inner wires
- Looping holes loop wire for screw-on connections



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



Underground Feeder (UF) Cable Stripper

- Self-adjusting stripping blades automatically select proper position
- Strips 12/2 AWG solid to 14/2 AWG Underground Feeder (UF) Cable
- Strips Twin and Earth cable
- Open-throat construction allows unlimited strip length
- Neatly removes outer cable sheath and inner wire sheathing to desired lengths
- Lightweight, ergonomic design reduces user fatigue



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

Cable Ripper

- Slits NM cable wire sheathing before stripping wires
- Quick, clean and easy end or mid-run removal of jacket
- Convenient built-in wire gauge



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

T[®]-Cutter Wire Cutter

- Hardened steel, sheer-type blades
- Spring-loaded automatic opening
- Convenient plier nose for extra gripping strength
- Corrosion-resistant, black oxide finish
- Tough steel construction
- Locking tab keeps spring in place



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

Data T[®]-Cutter Wire Cutter

- 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



Description	Cat. No.
Data T [®] -Cutter	45-074

Combo Tool

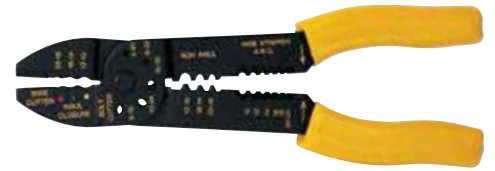
- Convenient, four-function tool features precision-ground stripping holes and knife-to-anvil cutting blades
- Crimps bare and insulated terminals
- Cuts unhardened bolts (4-40, 6-32, 8-32, 10-24 and 10-32) and reforms threads



Description	Solid	Stranded	Cat. No.
Combo Tool	8-20 AWG	10-22 AWG	45-649

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

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

Round Cable Slitting and Ringing Tools

- Cuts around cable jacket as well as slits the length of jacket for easy removal
- Use with single or multiple conductor cable up to 1.50 in. O.D.
- Blade adjusts for jacket thicknesses up to .125 in.
- Spare blade in handle base



Description	Replacement Blades	Cat. No.
Cable Stripper for 1/4 in. to 3/4 in. O.D.	L-7486*	45-128
Cable Stripper for 3/4 in. to 1-1/2 in. O.D.		45-129

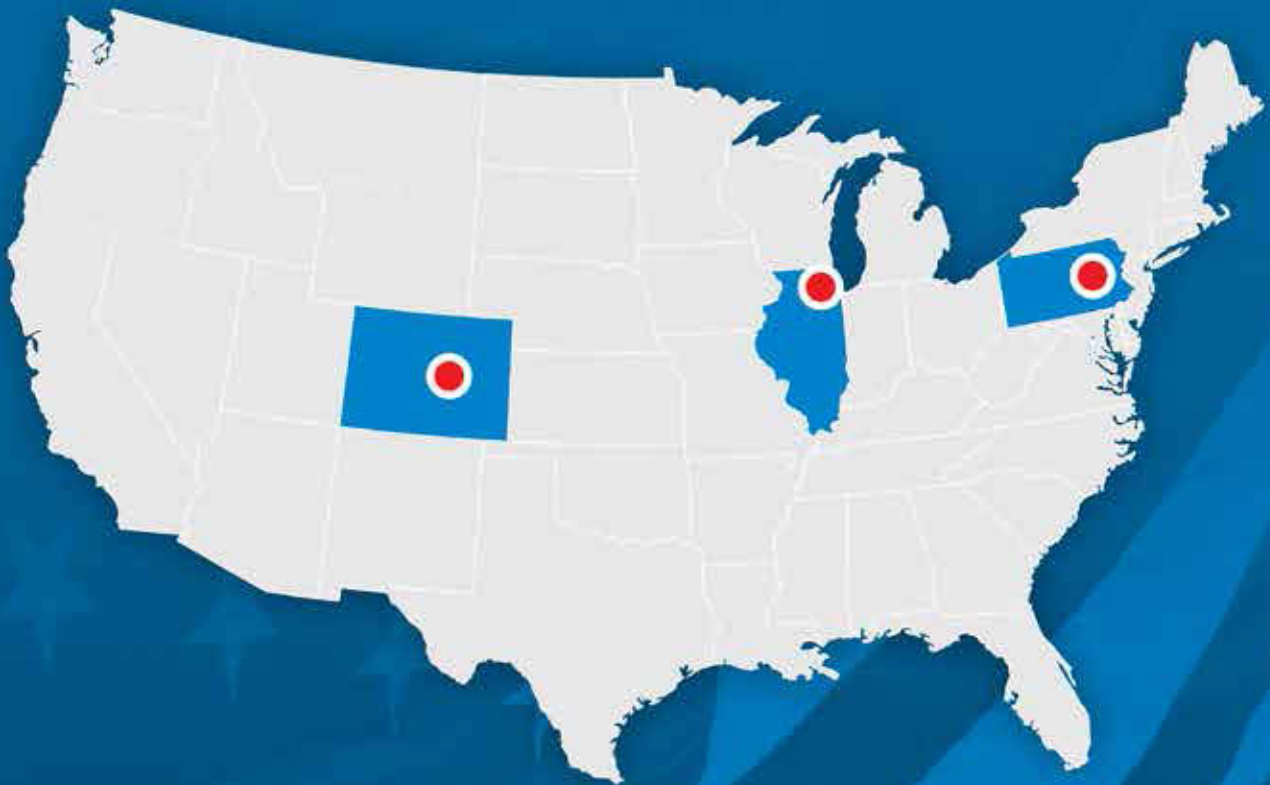
*Two Blades/package

Made in the U.S.A.

At a time when some companies are taking manufacturing jobs overseas, our commitment to American-made quality and homegrown manufacturing has never been stronger. At IDEAL, we are committed to American quality and the American electrician.

With forging facilities in Colorado Springs, Colorado and our efficient manufacturing and distribution center in Sycamore, Illinois, IDEAL Electrical pliers are crafted with American steel right here in the U.S.A. for quality and performance you can trust.

IDEAL Electrical is proud to be part of IDEAL INDUSTRIES INC., a family-owned, blue-collar American company that believes in serving the hardest working tradesmen in the world.



Colorado Springs, CO



Sycamore, IL



Pottstown, PA

Pliers

- Custom alloyed, premium quality tool steel provides excellent cutting performance and commercial use durability
- Precision ground knife to knife cutting blades for accurate hand quick wire cutting
- Hardened and tempered body and cutting edges for optimum performance
- Smooth ground rivets provide extra clearance in tight work spaces
- High leverage pivot design provides greater cutting and gripping power than traditional pliers



Made in U.S.A.



Grips



Color-coding and **FastFinder™** letter markers on SmartGrip™ handles provide quick tool identification, even by touch!



Linesman



Long Nose



Tongue & Groove



Cable Cutter



Diagonal



Crimper

PLIERS



Linesman Pliers

- Knife-to-knife blades never need resharping
- Cuts hardened wire, bolts and stainless steel wire



Description (Smart-Grip™ Handles)	Cat. No.
WireMan™ 9-1/2 in. Linesman Plier w/New England nose and crimping die	30-3430
Description (Dipped-Grip Handles)	Cat. No.
WireMan™ 9-1/2 in. Linesman Plier w/New England nose, crimping die and fish tape puller	30-430

Diagonal-Cutting Pliers

- Knife-to-anvil blades never need resharping
- Induction-hardened blades cut hardened wire, bolts and stainless steel wire
- 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.
WireMan™ 8 in. Diagonal-Cutting Pliers	35-3028
WireMan™ 8 in. Diagonal-Cutting Pliers w/angled head	35-3029
Description (Dipped-Grip Handles)	Cat. No.
WireMan™ 8 in. Diagonal-Cutting Pliers	35-028
WireMan™ 8 in. Diagonal-Cutting Pliers w/angled head	35-029

Long-Nose Pliers

- 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 resharping
- Laser-hardened blades cut hardened wire, bolts and stainless steel wire



Description (Smart-Grip™ Handles)	Cat. No.
WireMan™ 8-1/2 in. Long Nose w/Cutter	35-3038
Description (Dipped-Grip Handles)	Cat. No.
WireMan™ 6 in. Long Nose w/Cutter	35-036
WireMan™ 8-1/2 in. Long Nose w/Cutter	35-038

Tongue & Groove Pliers

- Reinforced flange protects against breakage
- Drop-forged, high-carbon steel construction



Description (Smart-Grip™ Handles)	Jaw Opening (Inches)	Cat. No.
WireMan™ 10-1/2 in. Tongue & Groove Pliers	2	35-3430
Description (Dipped-Grip Handles)	Jaw Opening (Inches)	Cat. No.
WireMan™ 10-1/2 in. Tongue & Groove Pliers	2	35-430
WireMan™ 12 in. Tongue & Groove Pliers	2-1/4	35-440

Cable Cutters

- Drop-forged, high-carbon steel construction
- Precision-ground, hardened cutting edges provide accurate cuts without cable distortion
- Cuts 2/0 copper and 4/0 aluminum (not for use on ACSR)



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

Multi-Crimp Tools

- Crimps bare or insulated terminals and splices on 10–22 AWG wire
- Knife-to-anvil blades never need sharpening
- Excellent leverage for easy crimping and cutting
- Drop-forged, high-carbon steel construction



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

Tenite® Grips

- Not insulated from electrical shock
- Boil in water to soften for easy installation onto handles



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

Tenite® is a registered trademark of Eastman Chemical Company.

Electrician's Hand Tools

IDEAL Electrical offers a complete range of specialized hand tools to support the dynamic needs of the professional electrician. With innovative, quality tools for professional performance, back by one superior brand, IDEAL continues to deliver premium tools in all categories. From screwdrivers, pliers, wrenches, levels to our iconic wire strippers, cutters, saws, and more, you can count on IDEAL for all of your professional hand tool needs .

SirNickless™ Cutter

- 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	Quantity	Cat. No.
Rotary Armored Cable Cutter	—	35-782
Replacement Blades	5/pack	35-781
	1/pack	35-781-1

MCAP® is a registered trademark of Southwire Company.

Mechanical Indentor and Crimp Tool

- 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



Description	Cat. No.
Mechanical Indentor & Crimp Tool	88-843

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

HAND TOOLS

IDEAL Wipes™ Multi-Purpose Towels

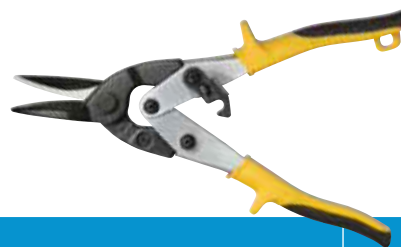
- Durable fabric scrubs without tearing, pre moistened – no water required
- Cleans dirt, grease, lube and grime
- Infused with natural hand moisturizers and Vitamin E, orange citrus scent
- Meets California C.A.R.B. standards



Description	Cat. No.
IDEAL Wipes™, 12 in. x 9 in. (82/can)	38-500
IDEAL Wipes™ Canister Bracket	38-500BR

Aviation Tin Snips

- Labor-saving design cuts straight, left and right, with one tool
- Chrome-molybdenum steel forged blades for greater strength and durability
- Serrated edges provide a stable hold when cutting



Description	Cat. No.
Aviation Tin Snips	35-001

Drop-Forged Hammer

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



Description	Cat. No.
18 oz. x 12-1/2 in. Drop-Forged Handled Hammer	35-210

Slip-Joint Pliers

- Two position slip joints fit large and small jobs
- Dipped comfort-grip handles for a secure grip
- Flush rivet



35-100

Description	Cat. No.
6 in. Slip Joint Pliers	35-100
8 in. Slip Joint Pliers	35-102

Torpedo Level

- 9 in. aluminum frame with magnetic and V-grooved edges
- Windows provide easy reading of plumb level and 45° mitre in dim lighting
- Three rare earth magnets for strong cling to conduit



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

Adjustable Wrenches

- Forged steel construction with narrow profile head reaches into tight spaces
- Tight tolerance on thumbscrew will not loosen or wobble with use
- Extra wide jaw capacity with standard and metric markings



35-021



Description	Jaw Capacity	Cat. No.
6 in. Adjustable Wrench	7/8 in.	35-019
8 in. Adjustable Wrench	1-1/8 in.	35-020
10 in. Adjustable Wrench	1-5/16 in.	35-021

Measuring Tapes

- Measurement marks on both sides of tape
- Blade automatically stays out when extended
- Push button for smooth blade retraction
- Comfortable, shock-resistant rubber grip



35-242

35-238

Description	Cat. No.
Auto-Lock™ Tape Measure - 25 ft.	35-242
Automatic Blade Lock w/Magnetic-Tip - 30 ft.	35-238

Electric Engraving Tools

- Engraves metal, glass, stone, ceramics, plastics, hard rubber, wood and many other hard materials
- Unique design reduces bouncing and provides smooth, easy writing; operating 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 & 3-conductor grounded cord & plug — 120V, 60 Hz	11-113
Carbide-Tipped replacement point	11-200
Diamond replacement point	11-201



Hex-Key Sets

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



35-146

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., 3/6 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

Center Punch

- Accurately start drilling holes on steel surfaces
- One-piece construction
- Hardened and tempered for long life



Description	Cat. No.
Center Punch	35-192

Chisels

- Hardened and tempered for long life
- Use Wood Chisel by hand or mallet



35-187

Description	Cat. No.
Cold Chisel (for cutting cold metals)	35-187
Wood Chisel	35-189

Utility Knife

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



Description	Replacement Blades	Cat. No.
Utility Knife	35-301*	35-300

*Five universal blades per package.

Pocket Knives

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



35-285



35-286



35-287

Description	Blade Type	Cat. No.
Electrician's Knife	Spearpoint and Screwdriver	35-285
Hawkbill Knife	Curved	35-286
Lineman's Jack Knife	Sheepfoot	35-287

Jab Saw

- Ergonomic, textured non-slip grip w/plunge-tip design
- Wallboard blade
- Weighted head provides superior balance



Description	Cat. No.
Jab Saw	35-275

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

Heavy-Duty Hacksaw

- Cushioned ergonomic grip for performance and comfort
- Rugged frame provides lightweight rigidity and exceptional control
- Includes 12 in. x 24T bi-metal blade, stores up to nine extra blades
- Blades can be adjusted to 55° angle for flush cutting and tensioned to 30,000 psi



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



Description	Cat. No.
Ergonomic Hacksaw with 12 in. x 24T bi-metal blade	35-261

Hacksaw Blades

- Bi-metal blades provide strength, flexibility and longer life



Description	Quantity	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

Cable Cutters

- Ratcheting
- Long-Arm
- Powerblade™



The IDEAL focus on innovation is demonstrated by the PowerBlade™ line of cable cutters. Chucked into virtually any drill these robust cutters save time and money for utilities and commercial electricians. This cable cutter attaches to virtually any cordless or corded drill (12V minimum).

*Drill not included.

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 - 2 in. Not for cutting steel or ACSR.

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 ACSR.

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

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

Big Kahuna™ Cable Cutter

- Extremely versatile and designed for multiple applications
- Jaw opening of 3-1/2 in.
- Cuts copper cable up to 1250 MCM and aluminum cable up to 1250 MCM
- Specially hardened, rounded blades minimize cable distortion for professional quality every time



(Drill not included)

Description	Replacement Blade*	Cat. No.
Big Kahuna™ Cable Cutter	KB-0276R	35-076

*Two blades per package.

Merlin™ ACSR Cable Cutter

- Especially designed for reinforced aluminum cable
- Jaw opening of 3/4 in. for precision and accuracy
- Cuts up to Merlin ACSR cable size



(Drill not included)

Description	Replacement Blade*	Cat. No.
Merlin™ ACSR Cable Cutter	KB-0278R	35-077

*Two blades per package.

PowerBlade™ 750 Cable Cutter

- Extremely versatile and designed for multiple applications
- Jaw opening of 1-1/2 in.
- Cuts copper cable up to 750 MCM and aluminum cable up to 1000 MCM
- Specially hardened, rounded blades minimize cable distortion for professional quality every time



(Drill not included)

Description	Replacement Blade*	Cat. No.
PowerBlade™ 750 Cable Cutter	KB-8906R	35-078

*Two blades per package.

PowerBlade™ Cable Cutter Replacement Parts

Replacement Parts (Gear Box Assembly)	Cat. No.
Gearbox Assembly	H-3400
Drive Gear	KB-0456
.125 Dia. x .625 Roll Pin	281.106
Torque Arm	K-8933
Folding Handle	H-3507

Replacement Parts	Cat. No.
PowerBlade™ Replacement Folding Assembly	H-3507
PowerBlade™ Replacement Torque Arm Assembly	K-8909
PowerBlade™ Replacement Carrying Case	K-8926
10-32 x .375 FHMS Hex Screw	113.190
Drive Gear	KB-0456



Screwdriver Types

Specialty

- Top quality screwdrivers designed especially for the professional electrician
- Multi-functional for all your fastening needs

Cushioned-Grip

- Cushioned-grip provides comfort and maximum torque
- Tip blasted tip prevents plate chipping
- Nickel chrome steel shank for maximum strength and durability
- Mini cushioned-grip tightens small fasteners easily and accurately

Nutdrivers

- Hollow shanks handle longer bolts
- Available in long lengths to accommodate extra long bolts
- Cushioned-gripped for comfort and maximum torque



Screwdriver Advanced Features

Specialty



Patented Wire Connector Wrench in handle



Accu-Loop™ Wire Looping Holes make perfect loops!

Cushioned-Grip



FastFinder™ icon shows tip type on handle end



Combo Head™ tip ensures full fastener engagement

21-in-1 Twist-a-Nut™ Ratcheting Screwdriver

- Patented Wire-Nut® Wire Connector Wrench accepts a wide variety of connectors and prevents finger fatigue
- Pro-quality, 28 tooth, all metal ratchet can handle 225 lbs. of torque without failure
- Ergonomic, slip-free textured grip provides excellent torque and is impervious to perspiration, gas, oil and chemicals
- Multiple bit storage unit in handle
- Bits included: #1 Phillips, #2 Phillips, #3 Phillips, 3/16" Slotted, 1/4" Slotted, 5/16" Slotted, #1 Square, #2 Square, #15 Star, #20 Star, #25 Star, #30 Star, 3/32" Hex, 1/8" Hex, 3/16" Hex, 5/32" Hex, 1/4" Nut, 5/16" Nut and 7/16" Nut



(Lifetime warranty excludes bits)

Description	Cat. No.
21-in-1 Twist-a-Nut™ Screwdriver	35-688

9-in-1 Ratch-a-Nut™ Screwdriver

- Patented Wire-Nut® Wire Connector Wrench accepts a wide variety of connectors and prevents finger fatigue
- Pro-quality, 28 tooth, all metal ratchet can handle 225 lbs. of torque without failure
- Ergonomic, slip-free textured grip provides excellent torque and is impervious to perspiration, gas, oil and chemicals
- Accepts Twist-a-Nut™ replacement bits
- Bits included: 1/4 in. Slotted, 3/16 in. Slotted, #1 Phillips, #2 Phillips, 1/4 in. Nutdriver, 5/16 in. Nutdriver, and 7/16 in. Nutdriver



(Lifetime warranty excludes bits)

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

7-in-1 Twist-a-Nut™ Screwdriver






- Patented Wire-Nut® Wire Connector Wrench accepts a wide variety of connectors and prevents finger fatigue
- Ergonomic, slip-free textured grip provides excellent torque and is impervious to perspiration, gas, oil and chemicals
- Handle is interchangeable with conduit deburrer head (#35-096) and 6-in-1 Tap Tool (#35-922)
- Bits included: 1/4 in. Slotted, 3/16 in. Slotted, #1 Phillips, #2 Phillips, 1/4 in. Nutdriver and 5/16 in. Nutdriver



(Lifetime warranty excludes bits)

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

Replacement Tips (for Twist-a-Nut™ and Ratch-a-Nut™ Screwdrivers)

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		35-913
3/16 in. slotted – #1 Square		35-914
#15 & #10 Star		35-915

6-in-1 Twist-a-Nut™ Tap 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)
- Includes: 6-32, 8-32 & 10-32 on one tapping side and 10-24, 12-24 & 1/4-20 on other side



(Lifetime warranty excludes taps)

Description		Cat. No.
Twist-a-Nut™ Tapping Tool		35-922
Replacement collar and six taps		35-923

3-in-1 Twist-a-Nut™ Tap 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)
- Patented Wire-Nut® Wire Connector wrench in handle helps install twist-on wire connectors
- Includes: Handle and three taps



(Lifetime warranty excludes taps)

Description		Cat. No.
3-in-1 Twist-a-Nut™ Tap Tool		35-412

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
- 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 at low speed setting in drill or cordless screwdriver



(Lifetime warranty excludes bits & blades)

Description	Tip Type	Cat. No.
Conduit Deburring Tool	Slotted	35-083
Conduit Deburring Tool	#2 Square	35-075
Conduit Deburring Tool (head only)	Slotted	35-096
Conduit Deburring Tool (head only)	#2 Square	35-098



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 Star; and 8-Pocket Carrying Pouch 35-927
- Nylon carrying pouch with metal belt clip holds all three Twist-a-Nut™ tools plus room for four replacement bits or taps



(Lifetime warranty excludes bits & taps)

Description	Cat. No.
Twist-a-Nut™ Conduit Wiring Kit	35-926
Twist-a-Nut™ Carrying Pouch only	35-927

Twist-a-Nut™ Pro Electrician's Screwdrivers

- Vapor-blasted tip improves screw grip
- Tough, chrome vanadium steel shank



Description	Cat. No.
#2 x 6 in. Square Twist-a-Nut™ Pro Electrician's Screwdriver	30-330
1/4 in. x 4 in. Slotted Twist-a-Nut™ Pro Electrician's Screwdriver	30-331
#2 x 4 in. Phillips Twist-a-Nut™ Pro Electrician's Screwdriver	30-332
1/4 in. x 6 in. Slotted Cabinet Tip Twist-a-Nut™ Pro Electrician's Screwdriver	30-333

11-in-1 Screwdriver/Nutdriver

- Includes: 1/4 in. Slotted, 3/16 in. Slotted, #2 Phillips, #1 Phillips, #1 Square, #2 Square, #15 Star, #10 Star, 5/16 in. Nutdriver & 1/4 in. Nutdriver
- Cushioned grip for comfort and performance
- Accu-Loop™ Wire looping holes



(Lifetime warranty excludes bits)

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

Replacement Bits for 11-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 (2/pack)	35-942
#15 & #10 Star (2/pack)	35-943

SPECIALTY SCREWDRIVERS

2-Piece Stubby Cushioned-Grip Screwdriver Set

- Set Includes: #2 Phillips and Keystone



Description		Cat. No.
2-Piece Stubby Screwdriver Set	SOLD ONLY AS A SET	35-1300

4-Piece Mini Cushioned-Grip Screwdriver Set

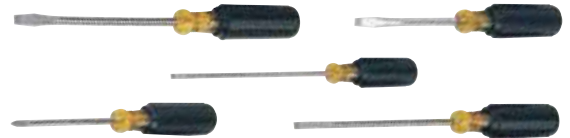
- Set Includes: #0 Phillips, 1/16 in. Keystone, 3/32 in. Cabinet and 1/8 in. Cabinet



Description		Cat. No.
4-Piece Screwdriver Set	SOLD ONLY AS A SET	35-1301

5-Piece Cushioned-Grip Screwdriver Set

- Set Includes: #2 Phillips 35-194, 1/4 in. Heavy-Duty Keystone 35-154, 3/16 in. Cabinet 35-186, 1/4 in. Heavy-Duty Cabinet 35-151 and 5/16 in. Heavy-Duty Keystone 35-166



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

7-Piece Cushioned-Grip Screwdriver Set

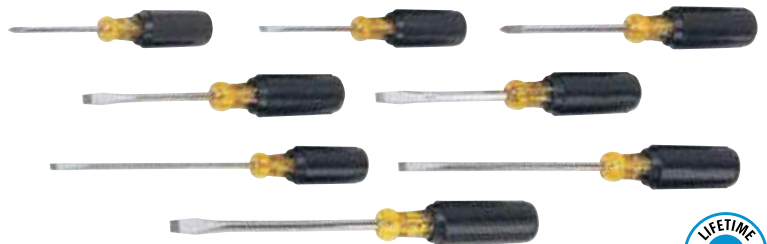
- Set Includes: #1 Phillips 35-193, 1/4 in. Heavy-Duty Cabinet 35-150, #2 Phillips 35-194, 1/4 in. Heavy-Duty Keystone 35-154, 3/16 in. Slotted Cabinet 35-186, 5/16 in. Keystone 35-156 and 3/16 in. Cabinet 35-186



Description		Cat. No.
7-Piece Screwdriver Set		35-1298

8-Piece Cushioned-Grip Screwdriver Set

- Set Includes: #1 Phillips 35-193, 3/16 in. Slotted 35-183, #2 Phillips 35-194, 1/4 in. Heavy-Duty Round Keystone 35-164, 1/4 in. Heavy-Duty Square Keystone 35-154, 3/16 in. Cabinet 35-186, 1/4 in. Heavy-Duty Cabinet 35-151 and 5/16 in. Heavy-Duty Keystone 35-166



Description		Cat. No.
8-Piece Screwdriver Set		35-298

Screwdrivers (excluding 2-Piece Stubby and 4-Piece Mini Sets) are also sold separately.

Phillips Cushioned-Grip Screwdrivers



Description	Blade Length	Handle Length	Overall Length	Cat. No.
#1 Phillips	3 in.	3-3/4 in.	6-3/4 in.	35-193
#2 Phillips	1-1/2 in.	1-15/16 in.	3-7/16 in.	35-191
#2 Phillips	4 in.	4-5/16 in.	8-5/16 in.	35-194
#2 Phillips	6 in.	4-5/16 in.	10-5/16 in.	35-195
#3 Phillips	6 in.	5-23/64 in.	11-23/64 in.	35-196

Square Cushioned-Grip Screwdrivers



- Precise tip for square-recess screws

Description	Blade Length	Handle Length	Overall Length	Cat. No.
#0 Square	4 in.	4-5/16 in.	8-5/16 in.	35-690
#1 Square	4 in.	4-5/16 in.	8-5/16 in.	35-691
#1 Square	8 in.	4-5/16 in.	12-5/16 in.	35-692
#2 Square	4 in.	4-5/16 in.	8-5/16 in.	35-693
#2 Square	8 in.	4-5/16 in.	12-5/16 in.	35-694
#3 Square	4 in.	4-5/16 in.	8-5/16 in.	35-695
#3 Square	8 in.	4-5/16 in.	12-5/16 in.	35-696

Cabinet Cushioned-Grip Screwdrivers



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

Heavy-Duty Cabinet Cushioned-Grip Screwdrivers



- Large diameter shank for tough applications

Description	Blade Length	Handle Length	Overall Length	Cat. No.
1/4 in. shank and tip	4 in.	4-5/16 in.	8-3/8 in.	35-150
1/4 in. shank and tip	6 in.	4-5/16 in.	10-3/8 in.	35-151
1/4 in. shank and tip	8 in.	4-5/16 in.	12-3/8 in.	35-152

Heavy-Duty Round Shaft Keystone Cushioned-Grip Screwdrivers



- Larger shank for heavy-duty applications

Round Shank	Blade Length	Handle Length	Overall Length	Cat. No.
1/4 in. shank and tip	1-1/2 in.	1-15/16 in.	3-7/16 in.	35-161
1/4 in. shank and tip	4 in.	4-5/16 in.	8-5/16 in.	35-164
5/16 in. shank and tip	6 in.	5-11/32 in.	11-11/32 in.	35-166
3/8 in. shank and tip	8 in.	5-11/32 in.	13-11/32 in.	35-168

Heavy-Duty Square Shaft Keystone Cushioned-Grip Screwdrivers



- Larger shank for heavy-duty applications
- Square-shank models offer wrench-assisted turning

Square Shank	Blade Length	Handle Length	Overall Length	Cat. No.
1/4 in. shank and tip	4 in.	4-5/16 in.	8-5/16 in.	35-154
5/16 in. shank and tip	6 in.	5-11/32 in.	11-11/32 in.	35-156
3/8 in. shank and tip	8 in.	5-11/32 in.	13-11/32 in.	35-158

Combo Head™ Cushioned-Grip Screwdriver



- Designed to accurately and securely fit most Combination Fasteners
- Patented design

Description	Blade Length	Handle Length	Overall Length	Cat. No.
Combo Head™ Cushioned-Grip Screwdriver	4 in.	4-5/16 in.	8-5/16 in.	35-204

Quick Rotating Screwdriver

- Ideal for threading screws in switches, fixtures and anchors
- One-handed crank action for quick and easy use



Description	Blade Length	Handle Length	Overall Length	Cat. No.
Cabinet Quick Rotating Screwdriver	5-9/16 in.	3-3/4 in.	9-3/8 in.	35-200
Phillips Quick Rotating Screwdriver	5-5/8 in.	4-5/16 in.	9-15/16 in.	35-203

Awl

- Heavy-duty construction for piercing, punching and scribing



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

Grip-n-Screw™ Screwdriver

- Holds screw when collar is extended
- Non-magnetic screw-holding screwdriver



Description	Blade Length	Handle Length	Overall Length	Cat. No.
3/16 Slotted Grip-n-Screw™ Screwdriver	5-7/8 in.	3-3/4 in.	9-5/8 in.	35-406
#2 Phillips Grip-n-Screw™ Screwdriver	6-7/8 in.	4-15/16 in.	11-1/4 in.	35-404

Off-Set Screwdriver Set

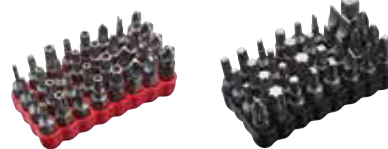
- 4 in. length
- 1/4 in. x 1/4 in. Slotted tips and #1 Phillips x #2 Phillips tips
- Designed to tighten fasteners in hard to reach places



Description	Overall Length	Cat. No.
Off-Set Screwdriver Set	4 in.	35-219

Quick-Change Screwdriver

- Patented Sure-Loc™ Quick Change chuck eliminates debris pick up as well as dropped bits
- Built-in bit storage container in handle holds up to five extra insert bits
- Bits fit all standard multi-bit screwdrivers
- E-Z Spin™ high torque rotating flip cap

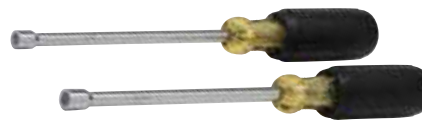


(Lifetime warranty excludes bits)

Description	Blade Length	Handle Length	Overall Length	Cat. No.
Quick Change Screwdriver (Driver only)	3-1/16 in.	4-3/16 in.	7-1/4 in.	35-932
33-Piece Quick Change Screwdriver Set - Quick Change Screwdriver and 32-Piece Tamper-Proof Bit Block	3-1/16 in.	4-3/16 in.	7-1/4 in.	35-933
33-Piece Quick Change Screwdriver Set - Quick Change Screwdriver and 32-Piece Standard Bit Block	3-1/16 in.	4-3/16 in.	7-1/4 in.	35-934
32-Piece Tamper-Proof Bit Block				35-933TP
32-Piece Standard Bit Block				35-933STD

2-Piece Hollow-Shaft Nutdriver Set

- Includes: 1/4 in. Nutdriver & 5/16 in. Nutdriver
- Long shanks useful in deep electrical boxes



Description	Shank Length	Handle Length	Overall Length	Cat. No.
2-Piece Nutdriver Set	5-15/16 in.	4-5/16 in.	10-1/4 in.	35-1302

2-Piece Stubby Nutdriver Set

- Includes: 1/4 in. Nutdriver & 5/16 in. Nutdriver
- For use in tight spaces



Description	Blade Length	Handle Length	Overall Length	Cat. No.
2-Piece Nutdriver Set	1-1/2 in.	2-1/8 in.	3-5/8 in.	35-1299

7-Piece Nutdriver Set

- Set Includes: 3/16 in. 35-290, 1/4 in. 35-291, 5/16 in. 35-292, 11/32 in. 35-293, 3/8 in. 35-294, 7/16 in. 35-295 and 1/2 in. 35-296



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

Nutmaster® Nutdrivers

- Models 35-292 and 35-295 fit Tan & Blue Twister® Wire Connectors



Description	Shank Length	Handle Length	Overall Length	Cat. No.
3/16 in.	3 in.	4-5/16 in.	7-5/16 in.	35-290
1/4 in.	3 in.	4-5/16 in.	7-5/16 in.	35-291
5/16 in.	3 in.	4-5/16 in.	7-5/16 in.	35-292
11/32 in.	3 in.	4-5/16 in.	7-5/16 in.	35-293
3/8 in.	3 in.	4-5/16 in.	7-5/16 in.	35-294
7/16 in.	3 in.	4-5/16 in.	7-5/16 in.	35-295
1/2 in.	3 in.	4-5/16 in.	7-5/16 in.	35-296

Slim Electronics Screwdrivers

- Designed for maximum handling comfort when working in tight areas
- Tough, chrome vanadium steel shank
- Phosphate tip for longer wear life
- Color-coded cap for easy identification



Description	Blade Length	Handle Length	Overall Length	Cat. No.
Cabinet, 3/32 in.	2-1/2 in.	3-9/16 in.	6-1/16 in.	36-240
Cabinet, 3/32 in.	3 in.	3-9/16 in.	6-9/16 in.	36-241
Cabinet, 1/8 in.	4 in.	3-9/16 in.	7-9/16 in.	36-242
Cabinet, 1/8 in.	6 in.	3-9/16 in.	9-9/16 in.	36-243
Cabinet, 5/32 in.	4 in.	3-9/16 in.	7-9/16 in.	36-244
Cabinet, 5/32 in.	6 in.	3-9/16 in.	9-9/16 in.	36-245
Phillips, #0	2-1/2 in.	3-9/16 in.	6-1/16 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

Industrial Screwdriver Bits & Accessories

- S2M tool steel, custom heat treated for strength and durability
- All tips are manufactured to tight tolerances to ensure accurate fit and full fastener engagement
- Custom heat treated for strength and durability
- Insert bits have a retaining ring notch
- Power bits have a power locking groove
- 1/4 in. hex body
- Fit all standard multi-bit screwdrivers
- Patented Combo Head™ bit is an IDEAL exclusive

Made in U.S.A.



Designed for
precision fit and
lasting performance.



Combo Head™



Slotted



Double Ended



Phillips



Square



Torx®

Torx® is a registered trademark of Acument Intellectual Properties, LLC.

SCREWDRIVER BITS

Combo Head™ Bits

- Patented design tip fits most combination screws



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Combo Drive #2, 1 in. Insert Bit	78-0105	78-0105-25
Combo Drive #2, 2 in. Power Bit	78-0106	78-0106-25

Slotted Bits

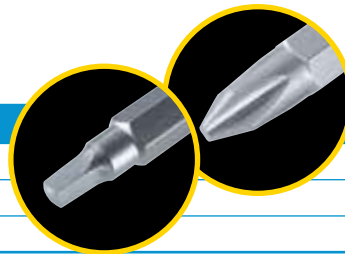
- Insert bits have a retaining ring notch, power bits have a power-locking groove



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Slotted 1/4 in., 1 in. Insert Bit	78-0209	—
Slotted 1/4 in., 2 in. Power Bit	78-0210	—
Slotted 1/8 in., 1 in. Insert Bit	78-0211	—
Slotted 1/8 in., 2 in. Power Bit	78-0212	—
Slotted 3/16 in., 1 in. Insert Bit	78-0213	78-0213-25
Slotted 3/16 in., 2 in. Power Bit	78-0214	78-0214-25
Slotted 7/32 in., 1 in. Insert Bit	—	78-0215-25
Slotted 7/32 in., 2 in. Power Bit	—	78-0216-25

Double-Ended Bits

- 2 bits in 1!



Description	Cat. No. (Carded)	Cat. No. (Bulk)
DE Slotted 1/4 in. x #2 Phillips	78-0102	78-0102-25
DE Slotted 1/4 in. x #2 Square	78-0103	—
DE Square #2 Square x #2 Phillips	—	78-0104-25

Torx® Bits

- Manufactured to tight tolerances to ensure accurate fit and full fastener engagement



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Torx® 20, 1 in. Insert Bit	78-0226	—
Torx® 25, 1 in. Insert Bit	78-0227	—
Torx® 27, 1 in. Insert Bit	78-0228	—
Torx® 30, 1 in. Insert Bit	78-0229	—
7 pc. Torx® Bit Set in Holder	78-0100	—

Torx® is a registered trademark of Acument Intellectual Properties, LLC.

Tamper-Proof Torx® Bits

- All bits made from rugged S2M tool steel



Description	Cat. No. (Carded)	Cat. No. (Bulk)
TP Torx® T20, 1 in. Insert Bit	78-0230	—
TP Torx® T25, 1 in. Insert Bit	78-0231	—
TP Torx® T27, 1 in. Insert Bit	78-0232	—
TP Torx® T30, 1 in. Insert Bit	78-0233	—
7 pc. Tamper-Proof Torx® Bit Set in Holder	78-0101	—

Torx® is a registered trademark of Acument Intellectual Properties, LLC.

Phillips Bits

- All bits 100% Made in the U.S.A.!



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Phillips #1, 1 in. Insert Bit	78-0200	78-0200-25
Phillips #1, 2 in. Power Bit	78-0201	78-0201-25
Phillips #2, 1 in. Insert Bit	78-0202	78-0202-25
Phillips #2, 2 in. Power Bit	78-0203	78-0203-25
Phillips #2, 6 in. Power Bit	78-0204	—
Phillips #3, 1 in. Insert Bit	78-0205	78-0205-25
Phillips #3, 2 in. Power Bit	78-0206	78-0206-25

Square Bits

- All bits and accessories fit standard multi-bit screwdrivers and power drills



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Square #1, 1 in. Insert Bit	78-0219	78-0219-25
Square #1, 2 in. Power Bit	78-0220	78-0220-25
Square #2, 1 in. Insert Bit	78-0221	78-0221-25
Square #2, 2 in. Power Bit	78-0222	78-0222-25
Square #2, 6 in. Power Bit	78-0223	—
Square #3, 1 in. Insert Bit	78-0224	78-0224-25
Square #3, 2 in. Power Bit	78-0225	78-0225-25

Magnetic Nut Setter

- Variety of sizes for multiple applications



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Magnetic Nut Setter 1/4 in.	78-0111	78-0111-10
Magnetic Nut Setter 3/8 in.	78-0113	78-0113-10
Magnetic Nut Setter 5/16 in.	78-0114	78-0114-10
Magnetic Nut Setter 3 pk. 1/4 in., 3/8 in., 5/16 in.	78-0112	—

Quick Change Chuck

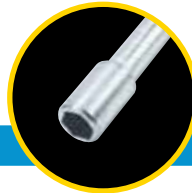
- Patented Sure-Loc™ tip clicks bit in place without pulling back collar



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Quick Change Chuck 3-3/4 in.	78-0207	—
Quick Change Chuck 6 in. (5)	—	78-0208-5

Magnetic Bit Holder

- Slender extension with powerful magnet to grasp and hold bits



Description	Cat. No. (Carded)
Magnetic Bit Holder 4 in.	78-0107
Magnetic Bit Holder 6 in.	78-0108

Socket Adapter

- Custom heat treated for strength and durability



Description	Cat. No. (Carded)	Cat. No. (Bulk)
Socket Adapter, 1 in. Insert Bit	78-0217	78-0217-25
Socket Adapter, 2 in. Power Bit	78-0218	—



Insulated Tools

- Double insulated, 1,000V certified
- Meets ASTM F1505-01 and IEC 60 900 standards
- Complies with OSHA 1910.335 regulations and NFPA 70E standards
- UL and VDE classified and certified (Pliers and Wire Strippers)

Insulated Tools

- Serrated jaws provide secure gripping surface
- Cutting jaws and edges laser hardened for greater strength and durability
- High carbon tool steel for precision durability
- Non-slip guard for added safety
- High visibility ergonomic handles for maximum comfort and control
- Textured handles provide a sure grip and are resistant to perspiration, water, oil and chemicals



Pliers only



Insulated Screwdrivers and Nutdrivers

- Precision-ground tips provide secure fit for less spin-out
- Molded-on insulation provides permanent bonding
- Tempered chrome vanadium tool steel blades are super hardened for maximum quality



Warning

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.

Basic Insulated Kit

- Kit Includes: 9 in. Insulated Side Cutter w/Crimp 30-9430, 7-1/2 in. Non-Conductive Fuse Puller 34-002, 8 in. Insulated Offset Diagonal Cutting Plier 35-9029, 8-1/2 in. Insulated Long-Nose Plier 35-9038, 2/0 Insulated Cable Cutter 35-9052, 1/4 in. x 4 in. Insulated Slotted Screwdriver 35-9150, 1/4 in. x 6 in. Insulated Slotted Screwdriver 35-915, #2 x 4 in. Insulated Phillips Screwdriver 35-9194, Red Safety Lock w/Key 44-916, Breaker Lockout, Tall & Wide 44-956, Breaker Lockout, Standard & Double 44-957, Insulated T[®]-5 T[®]-Stripper Wire Stripper 45-9120



Description	Cat. No.
Basic Insulated Kit (35-9350 Case included)	35-9100

Standard Insulated Kit

- Kit Includes: 9 in. Insulated Side Cutter w/Crimp 30-9430, 7-1/2 in. Non-Conductive Fuse Puller 34-002, 8 in. Insulated Offset Diagonal Cutting Plier 35-9029, 8-1/2 in. Insulated Long-Nose Plier 35-9038, 2/0 Insulated Cable Cutter 35-9052, 1/8 in. x 4 in. Insulated Slotted Screwdriver 35-9149, 1/4 in. x 4 in. Insulated Slotted Screwdriver 35-9150, 1/4 in. x 6 in. Insulated Slotted Screwdriver 35-9151, 5/16 in. x 7 in. Insulated Slotted Screwdriver 35-9166, 3/8 in. x 8 in. Insulated Slotted Screwdriver 35-9168, #1 x 3-3/16 in. Insulated Phillips Screwdriver 35-9193, Insulated Knife 35-9340, 10 in. Insulated Tongue & Groove Plier 35-9430, Breaker Lockout, Tall & Wide 44-956, Breaker Lockout, Standard & Double 44-957, Red Safety Lock w/Key 44-916, Insulated T[®]-5 T[®]-Stripper Wire Stripper 45-9120, Volt-Sensor NCV Tester 61-063



Description	Cat. No.
Standard Insulated Kit (35-9351 Case included)	35-9101

Journeyman Insulated Kit

- Kit Includes: Insulated Linesman's Pliers 30-9430, Insulated Multi-Crimp Tool 30-9429, 7-1/2 in. Non-Conductive Fuse Puller 34-002, 8 in. Insulated Offset Diagonal Cutting Plier 35-9029, 8-1/2 in. Insulated Long-Nose Plier 35-9038, 2/0 Insulated Cable Cutter 35-9052, 1/4 in. x 4 in. Insulated Slotted Screwdriver 35-9150, 1/4 in. x 6 in. Insulated Slotted Screwdriver 35-9151, 5/16 in. x 7 in. Insulated Slotted Screwdriver 35-9166, 3/8 in. x 8 in. Insulated Slotted Screwdriver 35-9168, #1 x 3-3/16 in. Insulated Phillips Screwdriver 35-9193, #2 x 4 in. Insulated Phillips Screwdriver 35-9194, #3 x 6 in. Insulated Phillips Screwdriver 35-9196, 3/16 in. x 5 in. Insulated Nutdriver 35-9290, 1/4 in. x 5 in. Insulated Nutdriver 35-9291, 5/16 in. x 5 in. Insulated Nutdriver 35-9292, 3/8 in. x 5 in. Insulated Nutdriver 35-9294, 7/16 in. x 5 in. Insulated Nutdriver 35-9295, 1/2 in. x 5 in. Insulated Nutdriver 35-9296, Insulated Knife 35-9340, 10 in. Insulated Tongue & Groove Plier 35-9430, Breaker Lockout, Tall & Wide 44-956, Breaker Lockout, Standard & Double 44-957, Red Safety Lock w/Key 44-916, Insulated T[®]-5 T[®]-Stripper Wire Stripper 45-9120, Volt-Sensor NCV Tester 61-063



Description	Cat. No.
Journeyman Insulated Kit (35-9352 Case included)	35-9102



9-Piece Insulated Hand Tool Kit

- Kit Includes: 9 in. Insulated Side Cutter w/Crimp 30-9430, 8 in. Offset Diagonal Cutting Plier 35-9029, 8-1/2 in. Long Nose Plier 35-9038, T[®]-5 T[®]-Stripper Wire Stripper 45-9120, Slotted 7/32 in. x 5 in. Screwdriver 35-9147, Slotted 1/4 in. x 4 in. Screwdriver 35-9150, Slotted 1/4 in. x 6 in. Screwdriver 35-9151, Phillips #1 x 3-3/16 in. Screwdriver 35-9193, Phillips #2 x 4 in. Screwdriver 35-9194

Description	Cat. No.
9-Piece Insulated Kit (35-9350 Case included)	35-9108

9-Piece Insulated Screwdriver Set

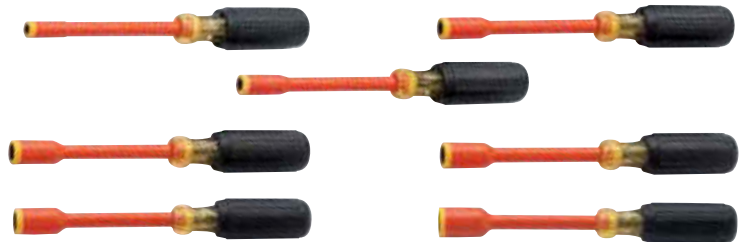
- Set Includes: Phillips #1 x 3-3/16 in. 35-9193, Phillips #2 x 4 in. 35-9194, Phillips #3 x 6 in. 35-9196, Square SQ #0 1/4 in. x 4 in. 35-9690, Slotted 1/4 in. x 4 in. 35-9150, Slotted 7/32 in. x 5 in. 35-9147, Slotted 1/4 in. x 6 in. 35-9151, Slotted 5/16 in. x 7 in. 35-9166, Slotted 3/8 in. x 8 in. 35-9168



Description	Cat. No.
9-Piece Insulated Screwdriver Kit (35-9353 Hard Case included)	35-9103

7-Piece Insulated Nutdriver Set

- Set Includes: 3/16 in. x 5 in. 35-9290, 1/4 in. x 5 in. 35-9291, 5/16 in. x 5 in. 35-9292, 3/8 in. x 5 in. 35-9294, 7/16 in. x 5 in. 35-9295, 1/2 in. x 5 in. 35-9296, 9/16 in. x 5 in. 35-9297



Description	Cat. No.
7-Piece Insulated Nutdriver Kit (35-9353 Hard Case included)	35-9104

2-Piece Insulated Screwdriver Set

- Set Includes: 1/4 in. x 4 in. 35-9150, Phillips #2 x 4 in. 35-9194



Description	Cat. No.
2-Piece Insulated Set	35-9305

Additional Nutdrivers

Description	Cat. No.
11/32 in. x 5 in. Insulated Nutdriver	35-9293
3/8 in. x 5 in. Insulated Nutdriver	35-9294

INSULATED TOOLS

Additional Screwdrivers (not included in sets/kits)



Description	Cat. No.
Slotted 3/23 in. x 3 in. Insulated Screwdriver	35-9148
Slotted 1/8 in. x 4 in. Insulated Screwdriver	35-9149
Phillips #0 x 2-3/8 in. Insulated Screwdriver	35-9169
Phillips #1 x 3-1/8 in. Insulated Screwdriver	35-9170
Phillips #3 x 6 in. Phillips Insulated Screwdriver	35-9172
Square #0 x 4 in. Insulated Screwdriver	35-9690
Square #1 x 6 in. Insulated Screwdriver	35-9691
Square #2 x 6 in. Insulated Screwdriver	35-9693
Square #3 x 6 in. Insulated Screwdriver	35-9695

Insulated Multi-Crimp Tool



Description	Cat. No.
9-3/4 in. Multi-Crimp Tool	30-9429

Insulated Linesman Pliers



Description	Cat. No.
9-1/4 in. Side Cutting Linesman Pliers	30-9430

Insulated Diagonal-Cutting Pliers



Description	Cat. No.
8 in. Diagonal Cutting Pliers w/angled head	35-9029

Insulated Long-Nose Pliers



Description	Cat. No.
8-1/2 in. Long-Nose Pliers	35-9038



Insulated Cable Cutter



Description	Cat. No.
9-1/2 in. High-Leverage Cable Cutter	35-9052

Insulated Skinning Knife



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

Insulated Tongue and Groove Pliers



Description	Cat. No.
10 in. Tongue and Groove Pliers	35-9430

Insulated T[®]-Stripper Wire Stripper



Description	Cat. No.
Premium T [®] -Stripper Wire Stripper	45-9120

Insulated Tool Kit Cases

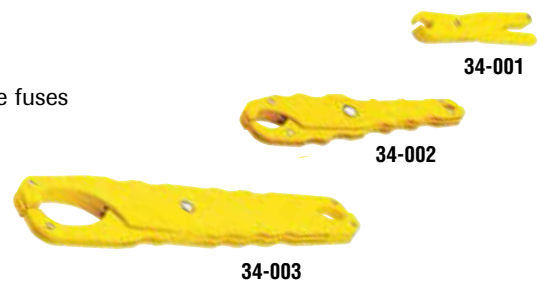


Description	Cat. No.
Soft Zipper Case for Basic Kit (35-9100 & 35-9108)	35-9350
Soft Zipper Case for Standard Kit (35-9101)	35-9351
Soft Zipper Case for Journeyman Kit (35-9102)	35-9352
Hard Case for Screwdriver Kit (35-9103) & Nutdriver Kit (35-9104)	35-9353

INSULATED TOOLS

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 construction
- Notched handles provide safe, no-slip grip
- Clearly marked amperage ranges
- Exceed MIL specifications



Description	Overall Length	Cat. No.
Small Puller for 250V, 9/32 in. to 1/2 in. dia. fuses	5 in.	34-001
Medium Puller for 0 to 100A/250V & 600V, 1/2 in. to 1 in. dia. fuses	7-1/2 in.	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.	34-003

Fuse Puller & 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 9/16 in. to 1 in. fuses, 100A/250V and 60A/600V
- Test capacity from 100V to 600V AC/DC



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

Fuse Pullers

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



Description	Overall Length	Cat. No.
Small Puller for 0 to 30A/250V, 1/4 in. to 1/2 in. dia. fuses	5 in.	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.	34-016

Tool Carriers/Pouches

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. Available in natural or black leather.



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. Color ages 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 tools organized and safe when not in use.



Tuff-Tote® Ultimate Tool Carriers

- 8 in. square tool carrier features 2 divided inside compartments with 6 screwdriver loops, 1 large center compartment, 4 outside pockets and 8 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



35-975

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 Carrier

- Convenient 6 in. x 8 in. tool carrier with 4 center screwdriver slots, 2 interior compartments, 2 divided outside pockets and 4 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

Tuff-Tote® Tool Pouches

- 8-pocket, belt-mounted pouch features large utility compartment with 2 dividers and 6 screwdriver loops, 7 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



35-950

Description	Cat. No.
Premium Leather Pouch w/shoulder strap	35-950
Premium Black Pouch w/shoulder strap	35-950BLK
Standard Leather Pouch w/shoulder strap	35-311



Hip Holster Tool Pouch

- Compact, six-pocket holster
- Heavy-duty leather construction
- Riveted corners for long life
- Tape measure holder



Description	Cat. No.
Hip Holster Tool Pouch	35-784BLK

Electrician's Tool Pouch

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



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

Shoulder Straps

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



35-965



35-338



35-965BLK

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

Belts

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



35-995



35-316



10-398

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

Supplies Apron

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



Description	Cat. No.
Supplies Apron	35-474

TOOL BAGS

Large Mouth Bags

- 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



Note: Tools sold separately.

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

Journeyman Electrician's Tote™ Tool Bag

- 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

Pocket Pal® Tool Holster

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



Note: Tools sold separately.

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

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 items
- Double inside liner and rigid bottom prevent bag distortion
- Durable nylon polyester construction



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

Zipper Pouches

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



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

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



Note: Wire connectors sold separately.

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

17-Piece Kit

- Kit Includes: Four Pliers with Smart-Grip™ Handles (9-1/4 in. Linesman w/fish tape puller 30-430, 8" Long Nose 35-038, 10" Tongue and Groove 35-430, 9-1/2" Cable Cutter 35-052), Kinetic™ Reflex™ T®-Stripper Wire Stripper 45-915, 7-in-1 Twist-A-Nut™ Screwdriver 35-908, Five Cushion Grip Screwdrivers (#1 x 3 Phillips 35-195, #2 x 4 Phillips 35-194, 3/16" x 6 Slotted Cabinet Tip 35-186, 1/4" x 4 Slotted round shank 35-164, 3/16" x 6 Screw holding slotted 35-406), Hawkbill Knife 35-286, Electrician's Hammer 35-210, 25' Auto-Lock™ Tape Measure 35-242, Torpedo Level 35-205, Voltage/ Continuity Tester 61-076, Tuff-Tote® Premium Leather Tool Carrier 35-975



Description	Cat. No.
Master Electrician's Kit	35-809

16-Piece Kit

- Kit Includes: Five Pliers with dipped grips (9-1/4" Linesman w/ crimper 30-430, Offset Diagonal 35-029, Long Nose 35-038, 10" Tongue and Groove 35-430, 2/0 Cable Cutter 35-052), Premium T[®]-5 T[®]-Stripper Wire Stripper 45-120, Two Cushioned-Grip Screwdrivers (#2 x 4 Phillips 35-194, 1/4 x 4 Slotted round shank 35-164), Twist-A-Nut[™] Conduit Deburring Tool 35-083, Electrician's Hammer 35-210, 25' Auto-Lock[™] Tape Measure 35-242, Electrician's Knife 35-285, Voltage/Continuity Tester 61-076, Replacement battery 61-201, Tuff-Tote[®] Leather Tool Pouch 35-311, 7-in-1 Twist-a-Nut[™] Screwdriver/Nutdriver 35-908



Description	Cat. No.
16-Piece Kit	35-800

13-Piece Kit

- Kit Includes: Three Pliers with Smart-Grip[™] handles (9-1/4" Linesman w/fish tape puller 30-430, 8" Long Nose 35-038, 10" Tongue and Groove 35-430), Kinetic[™] Reflex[™] T[®]-Stripper Wire Stripper 45-915, Four Cushioned-Grip Screwdrivers (#1 x 3 Phillips 35-193, #2 x 4 Phillips 35-194, 3/16" x 4 Slotted Cabinet Tip 35-186, 1/4" x 4 Slotted round shank 35-164), 25' Auto-Lock[™] Tape Measure 35-242, Hawkbill Knife 35-286, Medium Size Fuse Puller 34-002, Torpedo Level 35-205, Journeyman Electrician's Tote[®] 35-462



Description	Cat. No.
Journeyman Electrician's Kit	35-790

16-Piece Kit

- Kit Includes: Four Pliers with dipped grips (9-1/4" Linesman w/fish tape puller 35-012, 8" Long Nose 35-038, 10" Tongue and Groove 35-340, 9-1/2" Cable Cutter 35-012), Reflex[™] T[®]-5 T[®]-Stripper Wire Stripper 45-415, Combo Crimp/Strip Tool 30-428, Four Cushion Grip Screwdrivers (#1 x 3 Phillips 35-193, #2 x 4 Phillips 35-194, 3/16" x 6 Slotted Cabinet Tip 35-186, 1/4" x 4 Slotted round shank 35-164), Electrician's Hammer 35-210, 25' Auto-Lock[™] Tape Measure 35-242, Pocket Fuse Puller 34-002, Hawkbill knife 35-286, Ergonomic Hacksaw 35-261, 18" Large Mouth Bag 35-427



Description	Cat. No.
Large Mouth 20 in. Kit	35-808



12-Piece Kit

- Kit Includes: Four Pliers with dipped grip handles (9-1/4" Linesman 30-430, 8" Diagonal 35-028, 8" Long Nose 35-038, 10" Tongue and Groove 35-430), Premium T[®]-5 T[®]-Stripper Wire Stripper 45-120, Four Cushion Grip Screwdrivers (#1 x 3 Phillips 35-193, #2 x 4 Phillips 35-194, 3/16" x 4 Slotted Cabinet Tip 35-184, 1/4" x 4 Slotted round shank 35-164), Auto-Lock™ Tape Measure 35-242, Electrician's Leather Tool Pouch 10-466, Web Belt 10-398



Description	Cat. No.
12-Piece Set	35-5805

6-Piece Kit

- Kit Includes: 9-1/4" Linesman w/crimper 30-430, Premium T[®]-5 T[®]-Stripper Wire Stripper 45-120, 7-in-1 Twist-a-Nut™ Screwdriver 35-908, 25' Auto-Lock™ Tape Measure 35-242, Utility Knife 35-300, Pocket Pal™ Tool Holster 35-505



Description	Cat. No.
6-Piece Kit	35-794

5-Piece Kit

- Kit Includes: 9-1/4" Linesman w/crimper 30-430, T[®]-5 T[®]-Stripper Wire Stripper 45-120, #2 x 4 Phillips 35-194, 3/16" x 4 Slotted Cabinet Tip 35-186, Pocket Pal™ Tool Holster 35-505



Description	Cat. No.
5-Piece Kit	35-5792

4-Piece Kit

- Kit Includes: T[®]-5 T[®]-Stripper Wire Stripper 45-120, WireMan™ 9-1/4" Side-Cutting Pliers 35-012, Pocket Pal™ Tool Holster 35-505, 5-in-1 Screwdriver/Nutdriver 35-905



Description	Cat. No.
4-Piece Electrician's Tool Kit	35-5799

Cutting Supplies

Understanding an industry takes years of dedication and focus. At IDEAL Electrical, we are committed to delivering high quality, innovative products to professional electricians. Our power tool accessories are specifically designed with the professional electrician in mind. Experience less down time on the work site and get a superior cost-per-cut advantage with IDEAL.

Carbide-Tipped Hole Cutters
Sheet Metal
Stainless steel



Step Drills
Brass
Carbon Steel
Cast Iron
Stainless Steel



Bi-Metal Hole Saws
Metal
Plastics
Wood



Multi-Purpose Hole Saws
Composite Enclosures
Ceiling Tile
Cement Board
Wood



Auger Bits
Wood



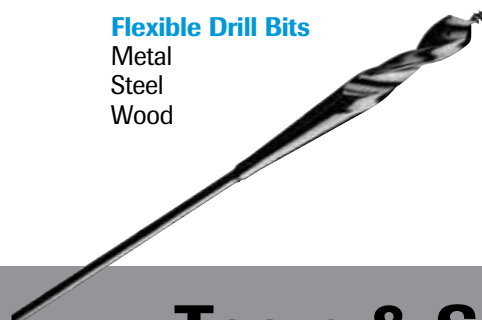
Wood Boring Bits
Wood



Reciprocating Blades
Metal Wood
Ceramic Tile Steel
Drywall
Fiberglass
General Purpose

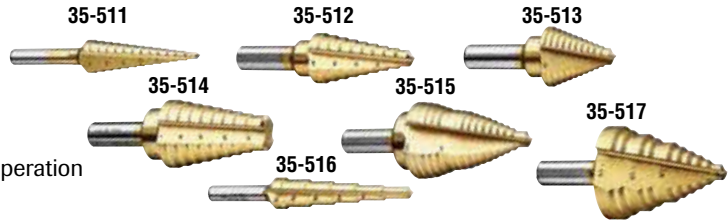


Flexible Drill Bits
Metal
Steel
Wood



Step Drill Bits

- Titanium nitride coating dramatically extends bit life
- Split-point design for faster starts
- Unique double-fluted design for balanced cuts and cooler operation
- Shanks are 1 in. in length



Drill Diameter Sizes (In.)	No. of Hole Sizes	Step Increments (In.)	Step Thickness (In.)	Shank Dia. (In.)	Cat. No.
1/8 to 1/2	13	1/32	1/8	5/16	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	5/16	35-516
1/4 to 1-3/8	10	1/32	1/16 to 1/4	3/8	35-517

*Requires pilot holes.

Electrician's Step Bit Kit

- Durable blow-molded case securely holds and protects bits
- Kit Includes: 1/8 to 1/2 in. 35-511, 1/4 to 7/8 in. 35-513, 1/4 to 1-1/8 in. 35-515 and 1/4 to 1-3/8 in. 35-517 Step Bits
- 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

Quick Change Step Bits

- Split-Point tip lasts longer and starts faster than competition
- High speed tool steel, double-tempered for superior tip life
- Double fluted and blended radius steps for smooth drilling
- 1/4" Quick change shank



Drill Diameter Sizes (In.)	No. of Hole Sizes	Step Increments (In.)	Step Thickness (In.)	Shank Dia. (In.)	Cat. No.
1/8 to 1/2	13	1/16	1/8	1/4	35-521
1/4 to 7/8	11		1/16		35-522
1/4 to 1-1/8	16		35-523		

Quick Change Step Bit Kit

- Kit Includes: 1/8 to 1/2 in. 35-521, 1/4 to 7/8 in. 35-522 and 1/4 to 1-1/8 in. 35-523 Step Bits



Description	Cat. No.
3-Piece Quick Change Step Bit Kit	35-524

TKO™ Carbide-Tipped Hole Cutters

- Integrated arbor provides solid rotation
- SmoothStart™ Pilot Drill prevents bit from “walking” on small surfaces
- Precision ground carbide teeth for fast cutting of clean, burr-free holes
- Designed specifically for sheet metal and stainless steel
- Built-in over drill flange prevents penetration beyond the sheet metal



Hole Size	Conduit & Pipe Size	Cat. No.
3/4 in. (19mm)	—	36-300
7/8 in. (22mm)	1/2 in. (22mm) - push button	36-301
1 in. (25mm)	—	36-302
1-1/8 in. (29mm)	3/4 in. (19mm)	36-303
1-1/4 in. (32mm)	—	36-304
1-3/8 in. (35 mm)	1 in. (25mm)	36-305
1-7/32 in. (30mm)	1-7/32 in. (30mm) - push button	36-313
1-7/16 in. (37mm)	—	36-306
1-1/2 in. (38mm)	—	36-307
1-3/4 in. (44mm)	1-1/4 in. (32mm)	36-308
2 in. (51mm)	1-1/2 in. (38mm)	36-309
2-1/2 in. (64mm)	2 in. (50mm)	36-310
2-7/8 in. (73mm)	2-1/2 in. (64mm)	36-315
3-1/2 (89mm)	3 in. (76mm)	36-316
4 in. (102mm)	3-1/2 in. (89mm)	36-317
4-1/2 in. (114mm)	4 in. (102mm)	36-318

3/8 in. Shank on all hole cutters.

4-Piece TKO™ Carbide-Tipped Hole Cutter Kit

- Kit Includes: 7/8 in. 36-301, 1-1/8 in. 36-303, 1-3/8 in. 36-305, SmoothStart™ Pilot Bit 36-312 and Convenient Carrying Case



Description	Cat. No.
4-Piece Carbide Hole Cutter Kit	36-311

8-Piece TKO™ Carbide-Tipped Hole Cutter Electrician's Kit

- Kit Includes: 7/8 in. 36-301, 1-1/8 in. 36-303, 1-3/8 in. 36-305, 1-3/4 in. 36-308, 2 in. 36-309, 2-1/2 in. 36-310, SmoothStart™ Pilot Bit 36-312 and Convenient Carrying Case



Description	Cat. No.
Electrician's Kit	36-314

SmoothStart™ Replacement Pilot Drill

- Guides cutter to surface providing smoother holes and cutter damage



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



IRONMAN™ Bi-Metal Hole Saws

- Thicker, flex-free backing plate for clean true holes and longer tool life
- Variable pitch tooth geometry for fast cutting and reduced vibration
- Cuts all types of machinable metal including stainless steel, wood, nail embedded wood, plastic and fiberboard



CUTTING SUPPLIES

Saw Diameter (In.)	Pipe Tap Size* (In.)	Pipe Entrance Size* (In.)	Use with Arbor No.	Cat. No.
9/16	—	—	Use Arbor No. 35-391, 35-392 or 35-393	35-340
5/8	—	—		35-341
11/16	—	—		35-342
3/4	1/2	3/8		35-343
25/32	—	—		35-399
13/16	—	—		35-344
7/8	3/4	1/2		35-345
15/16	—	—		35-346
1	—	—		35-347
1-1/16	—	—		35-348
1-1/8	1	3/4	35-349	
1-3/16	—	—	35-350	
1-1/4	—	—	35-351	
1-5/16	—	—	35-352	
1-3/8	—	1	35-353	
1-1/2	1-1/4	—	35-355	
1-9/16	—	—	35-356	
1-5/8	—	—	35-357	
1-1/16	—	—	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	Use Arbor No. 35-394, 35-536 or 35-537	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	
3	—	2-1/2	Use Arbor No. 35-394, 35-536, 35-537 or 35-538	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.

8-Piece Electrician's Hole Saw Kit

- Kit Includes: 7/8 in. 35-345, 1-1/8 in. 35-349, 1-3/8 in. 35-353, 1-3/4 in. 35-359, 2 in. 35-362, 2-1/2 in. 35-368, 7/16 in. Hole Saw Arbors 35-393 and 35-394



Description	Cat. No.
8-Piece Electrician's Hole Saw Kit	35-400

14-Piece Electrician's Hole Saw Kit

- Kit Includes: 7/8 in. 35-345, 1-1/8 in. 35-349, 1-3/8 in. 35-353, 1-3/4 in. 35-359, 2 in. 35-362, 2-1/2 in. 35-368, 3 in. 35-373, 3-5/8 in. 35-378, 4-1/8 in. 35-382, 4-1/2 in. 35-385, 1/4 in. Round Hole Saw Arbor 35-391, 7/16 in. Hex Hole Saw Arbors 35-393, 35-394 and Arbor Extension 35-396



Description	Cat. No.
14-Piece Electricians Hole Saw Kit	35-401

19-Piece Electrician's Hole Saw Kit

- For electrical, industrial and all-purpose maintenance needs
- Kit Includes: 3/4 in. 35-343, 7/8 in. 35-345, 1 in. 35-347, 1-1/8 in. 35-349, 1-3/8 in. 35-353, 1-1/2 in. 35-355, 1-3/4 in. 35-359, 2 in. 35-362, 2-1/4 in. 35-365, 2-1/2 in. 35-368, 3 in. 35-373, 3-5/8 in. 35-378, 4-1/8 in. 35-382, 4-1/2 in. 35-385, 7/16 in. Hex Hole Saw Arbors 35-393 & 35-394, Replacement Pilot Drill 35-397 and Arbor Extension 35-396



Description	Cat. No.
19-Piece Electrician's Hole Saw Kit	35-518

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

- Easily connects to IDEAL Hole Saw Arbors
- Extension adds up to 18 in.



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



Hole Saw Arbors

- Durable steel construction for long-lasting performance
- Set-screw in body for easy replacement of the pilot drill
- Versatile design saves valuable time, no tools needed to change hole saws

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

Best arbor for use with TriBore™ Hole Saws.

Tri-Bore™ Multi-Purpose Hole Saw



- Massive carbide tips designed to cut wood with nails, cement board, composite enclosures, ceiling tile and more!
- Faster than self-feed bits in wood and carbide grit in abrasive materials

Hole Size (in.)	Application	Cat. No.
1-3/8		36-350
2-1/8	1-1/2" Pipe and lock installation	36-351
2-1/4	1-1/2" Pipe with couplings	36-352
2-9/16	2" Pipe	36-353
3	2" Pipe with couplings	36-354
3-3/8		36-355
3-5/8	3" Pipe	36-356
4		36-357
4-1/4	3" Pipe with couplings, 4" dryer vent	36-358
4-1/8		36-359
4-3/8	Capri®, Halo®, Marco, Mini Juno	36-360
4-5/8	4" pipe	36-361
5-3/8	Capri®, Juno®, Lightolier, Prescolite, Progress	36-362
6-1/4	6" Duct	36-363
6-3/8	Capri®, Halo®	36-364
6-5/8	Juno® and Progress	36-365
6-7/8	Capri®, Lightolier, Lithonia, Prescolite, Progress	36-366

Spade Bit & Carbide Pilot for Tri-Bore™ Hole Saws



- Deep-cup design on Tri-Bore™ Hole Saws require the use of a longer pilot bit.

Hole Size (in.)	Application	Cat. No.
Spade Bit	Wood boring	36-367*
Carbide Pilot	Abrasive material boring	36-368*

*For use with Hole Saw Arbors 35-394, 35-536, 35-537, 35-538

Adjustable Can Light Hole Saw

- Cuts drywall and ceiling tile
- Self-sharpening carbide coated cutting blades
- Includes two dust shields to minimize clean up



Drill not included.

Dust shield included.

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

Screw Point Flexible Drill Bit, 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 (in.)	Cat. No.
3/8 in. x 54 in. Screw Point Flexible Bit	3/16	90-082
1/2 in. x 54 in. Screw Point Flexible Bit	3/16	90-085
9/16 in. x 54 in. Screw Point Flexible Bit	3/16	90-088
3/4 in. x 54 in. Screw Point Flexible Bit	1/4	90-091

Serrated Combination Flexible Drill Bit, Type C

- Fast and aggressive, self-starting bit
- Ultra-sharp ground threads provide increased pulling power through obstructions
- Designed for easy to tough wood and light metal drilling



Description	Shank (in.)	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

Flexible Bit Extension

- 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
1/4 in. x 36 in. Flexible Bit Extension	1/4	90-173

Flexible Bit Replacement Tool



Description	Cat. No.
Flexible Bit Replacement Tool	90-176



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

Power Spade Bits

- The most innovative and fastest spade bit
- Smooth and effortless drilling
- Max operating speed 1500 RPM
- Available in a variety of sizes
- Offers less vibration than other bits



Description	Cat. No.
1/2 in.	36-413
5/8 in.	36-415
3/4 in.	36-417
7/8 in.	36-419
1 in.	36-421
1-1/8 in.	36-422
1-1/4 in.	36-423

Power Spade Bit Kit

- Kit Includes: 5/8 in. 36-415, 3/4 in. 36-417, 7/8 in. 36-419, 1 in. 36-421 Spade Bits and pouch

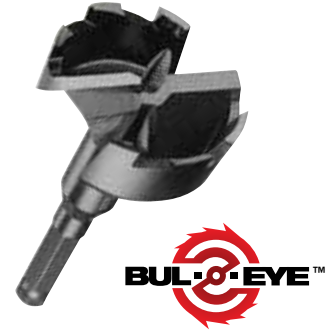


Description	Cat. No.
4-pc. Power Spade Bit Kit	36-432

CUTTING SUPPLIES

BULZ-EYE™ Self Feed Wood Boring Bits

- Twin cutting edges for superior cutting speed and ultra clean holes
- Precision ground teeth with up to 50% wider cutting surface, provides clean and balanced cuts for maximum control
- Robust replaceable lead screw with burr-free threads that feed the bit through the wood at a consistent rate
- Precision machined shaft for bit concentricity to eliminate wobble and deliver a truer hole
- Black oxide coated, heat treated and hardened for added durability
- Quick-change shank for fast, secure change out



Description	Diameter	Entrance Size for Pipe & EMT	Cat.
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

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	Qty.	Cat. No.
Small replacement lead screws, fits bit sizes 1 in. - 2-9/16 in.	3/pack	36-271
Small replacement lead screws, fits bit sizes 3 in. - 4-5/8 in.	3/pack	36-270

Extension Bars

- Cuts into hard-to-reach areas
- Fits IDEAL Auger Bits



Description	Cat. No.
5-1/2 in. Extension Bar	36-273
18 in. Extension Bar	35-819



Sharpening File

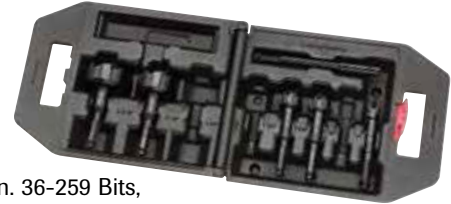
- Keeps durable bits working like new
- High-grade sharpener hones dulled edges quickly and efficiently



Description	Cat. No.
Sharpening File	36-272

6-Piece BULZ-EYE™ Self Feed Wood Boring Bit Kit

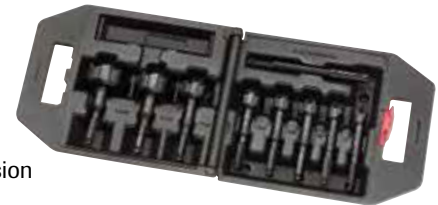
- For the professional needing to drill multiple hole sizes in any wood material
- Kit Includes: 1 in. 36-250, 1-1/4 in. 36-252, 1-3/8 in. 36-253, 2 in. 36-256 and 2-9/16 in. 36-259 Bits, and 5-1/2 in. Extension Bar 36-273 and carrying case



Description	Cat. No.
6-Piece Wood Boring Bit Kit	36-266

9-Piece BULZ-EYE™ Self Feed Wood Boring Bit Kit

- For the professional needing to drill multiple hole sizes in any wood material
- Kit Includes: 1 in. 36-250, 1-1/8 in. 36-251, 1-1/4 in. 36-252, 1-3/8 in. 36-253, 1-1/2 in. 36-254, 1-3/4 in. 36-255, 2-1/8 in. 36-257 and 2-9/16 in. 36-259 Bits, and 5-1/2 in. Extension Bar 36-273 and carrying case



Description	Cat. No.
9-Piece Wood Boring Bit Kit	36-269

Mini™ Utility Bit Augers

- Designed to fit between wall studs when used with common drills
- Eliminates the need for expensive right angle drills



Bit Length = 4-3/4", Twist = 2-1/2", Shank = 7/16"	Hole Diameter	Cat. No.
5/8 in. Mini™ Auger	5/8 in.	35-862
3/4 in. Mini™ Auger	3/4 in.	35-864
7/8 in. Mini™ Auger	7/8 in.	35-866
1 in. Power Ship Auger	1 in.	35-868

5" Nailbiter™ Premium Ship Auger Bits



- Dual-Helix construction with twin cutting edges for 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 tool life

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

15" Nailbiter™ Premium Ship Auger Bits



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.	35-821
11/16 in. Power Ship Auger	11/16 in.	18 in.	15 in.	35-822
3/4 in. Power Ship Auger	3/4 in.	18 in.	15 in.	35-823
13/16 in. Power Ship Auger	13/16 in.	18 in.	15 in.	35-824
7/8 in. Power Ship Auger	7/8 in.	18 in.	15 in.	35-825
15/16 in. Power Ship Auger	15/16 in.	18 in.	15 in.	35-826
1 in. Power Ship Auger	1 in.	18 in.	15 in.	35-827
1-1/8 in. Power Ship Auger	1-1/8 in.	18 in.	15 in.	35-828
1-1/4 in. Power Ship Auger	1-1/4 in.	18 in.	15 in.	35-829

Auger Bit Extension

- Dual locking screws
- Allen wrench included
- Compatible with Nailbiter™ and RESI-MASTER™ Ship Augers



Auger Bit Extensions, 18"; Six flats to fit drill chuck Description	Cat. No.
Auger Bit Extension - 5/16 in.	35-818
Auger Bit Extension - 7/16 in.	35-819



5" 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

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.	35-731
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

15" 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

Description	Hole Diameter	Overall Length	Twist Length	Cat. No.
1/2 in. RESI-MASTER™ Auger	1/2 in.	18 in.	15 in.	35-726
5/8 in. RESI-MASTER™ Auger	5/8 in.	18 in.	15 in.	35-971
11/16 in. RESI-MASTER™ Auger	11/16 in.	18 in.	15 in.	35-727
3/4 in. RESI-MASTER™ Auger	3/4 in.	18 in.	15 in.	35-972
13/16 in. RESI-MASTER™ Auger	13/16 in.	18 in.	15 in.	35-728
7/8 in. RESI-MASTER™ Auger	7/8 in.	18 in.	15 in.	35-976
15/16 in. RESI-MASTER™ Auger	15/16 in.	18 in.	15 in.	35-977
1 in. RESI-MASTER™ Auger	1 in.	18 in.	15 in.	35-978
1-1/8 in. RESI-MASTER™ Auger	1-1/8 in.	18 in.	15 in.	35-979
1-1/4 in. RESI-MASTER™ Auger	1-1/4 in.	18 in.	15 in.	35-729

CUTTING SUPPLIES

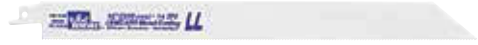
Reciprocating Blades

- Bi-metal blades last up to ten times longer than carbon steel blades
- 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 (In.)	TPI	Material	Blade Back	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
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
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
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
Heavy-Duty Metal Cutting						
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
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
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						
6 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-065
9 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-066
12 x 3/4 x .050	6	Bi-metal	Taper	5	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-067
Demolition						
9 x 7/8 x .062	6	Bi-metal	Taper	2	Demolition work in nail-embedded wood, remodeling	36-095
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						
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						
8 x 3/4 x .050	Grit	Tung. Grit	Straight	2	Iron pipe, fiberglass, reinforced plastics, ceramic tile, stone, slate and brick.	36-090
3 x 5/16 x .035	18	Bi-metal	Scroll	5	Scroll cutting wood, cast aluminum and non-ferrous metals	36-054
Plaster/Drywall						
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

L/W/TH (In.)	TPI	Material	Blade Back	Qty.	Application	Cat. No.
6 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/6" - 3/16" thick	36-043
8 x 3/4 x .035	18	Bi-metal	Straight	5	Long-Life blade for cutting structural steel, pipe, conduit, stainless steel, sheet metal: 1/6" - 3/16" thick	36-044
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
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.

L/W/TH (In.)	Blade Back	Qty.	Application	Cat. No.
6 x 3/4 x .035	Bi-Metal	5	All metal, non-ferrous metal, sheet metal, pipe and other metal materials	36-056

Portable Band Saw Blades

- Bi-metal construction
- Fit all standard portable band saw machines
- For pipe, tubing and solids
- Cut any machinable metal, including conduit, angle iron, structurals, rebar and stainless steel tubing



L/W/TH (In.)	TPI	Quantity	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

Wire Management

Cable Ties

- Tools
- Miniature, Standard, Heavy Duty
- Screw Mounting Bases

Staples

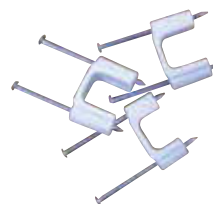
- Plastic Insulated
- Carbon Steel

Wire Markers

- Booklets
- Cards
- Dispenser

Switches

- Toggle
- Rocker
- Lever/Pull Chain
- Push-Button
- Rotary
- Door
- Indicator Lights



Cable Tie Numbering System

IT - 2 - S - MH - C - 0

IT	2	S	MH	CC	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 MH = Standard Tie ID = 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 0 = Natural 0 = UV Black 8 = Gray 30 = Heat Stabilized Black 35 = Maroon 702 = Halar

Cable Tie Installation Tool

- Consistent, positive tension
- Flush cut-off leaves no projections to damage nearby wires or components
- Lightweight economy model for smaller jobs
- Standard and heavy-duty models feature rugged construction with comfortable, cushioned grips



Description	Cat. No.
Economy – use w/standard & heavy-duty ties	41-990
Heavy-Duty – use w/standard & heavy-duty ties	41-995

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

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						100	IT250CCL-C0
Natural Nylon	.375 in./9.52mm	.500 in./12.70mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT375CCL2-C
UV Black Nylon						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

Plenum Cable Ties

- 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



CABLE TIES

Standard Ties

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Burgundy Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8 in.	50 lbs.	—	100	IT2S-C35
Natural Nylon						MS3367-1-9	100	IT2S-C
Natural Nylon						MS3367-1-0	1000	IT2S-M
UV Black Nylon							100	IT2S-C0
UV Black Nylon							1000	IT2S-M0
Burgundy Nylon							100	IT3S-C35
Natural Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16 in.	50 lbs.	—	100	IT3S-C35
Natural Nylon						MS3367-7-9	100	IT3S-C
Natural Nylon						MS3367-7-0	500	IT3S-D
UV Black Nylon							100	IT3S-C0
UV Black Nylon							500	IT3S-D0
Natural Nylon							100	IT4S-C
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8 in.	50 lbs.	MS3367-2-9	500	IT4S-D
UV Black Nylon						MS3367-2-0	100	IT4S-C0
UV Black Nylon							500	IT4S-D0

Mounting Ties

Description	Length	Width	Strap Thickness	Max. Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	100	IT2SMH-C
Natural Nylon							1000	IT2SMH-M
UV Black Nylon							100	IT2SMH-C0





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 high 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/257°F working temperature

Miniature (18 lb.) Natural & UV Black Cable Ties

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						100	IT1M-C0	
Natural Nylon	6.1 in./154mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 3-1/2 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.) Natural & UV Black Cable Ties

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	5.7 in./145mm	.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							1000	IT1_5I-M
UV Black Nylon						100	IT1_5I-C0	
UV Black Nylon	8.8 in./224mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 2-3/8 in.	40 lbs.	MS3367-5-0	1000	IT1_5I-M0
Natural Nylon							100	IT2I-C
Natural Nylon						1000	IT2I-M	
UV Black Nylon						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							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							100	IT4I-C0

*IM, 1_5 & 2I Series



Standard (50 lb.) Natural & UV Black & Heat Stabilized Black Cable Ties

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8 in.	50 lbs.	MS3367-1-9	100	IT2S-C
Natural Nylon							1000	IT2S-M
UV Black Nylon						MS3367-1-0	100	IT2S-C0
UV Black Nylon							1000	IT2S-M0
Natural Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16 in.	50 lbs.	MS3367-7-9	100	IT3S-C
Natural Nylon							500	IT3S-D
UV Black Nylon						MS3367-7-0	100	IT3S-C0
UV Black Nylon							500	IT3S-D0
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8 in.	50 lbs.	MS3367-2-9	100	IT4S-C
Natural Nylon							500	IT4S-D
UV Black Nylon						MS3367-2-0	100	IT4S-C0
UV Black Nylon							500	IT4S-D0
Natural Nylon	17.0 in./432mm	.190 in./4.82mm	.053 in./1.34mm	1/16 - 4-3/4 in.	50 lbs.	—	100	IT5S-C
UV Black Nylon							100	IT5S-C0

*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 and Extra Heavy-Duty Natural, UV Black and Heat Stabilized Cable Ties

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							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							MS3367-3-0	50
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							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							50	IT7LH-L0
Natural Nylon	25.3 in./642mm	.340 in./8.64mm	.090 in./2.29mm	3/16-7-3/16 in.	175 lbs.	MS3367-10-9	50	IT7H-L
UV Black Nylon							MS3367-10-0	50
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							MS3367-13-0	50
Natural Nylon	47.8 in./1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2 in.	175 lbs.	MS3367-16-9	50	IT14H-L
UV Black Nylon							MS3367-16-0	50
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, 11H, 14H Series



Mounting Head, Natural & UV Black Cable Ties

- 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	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							100	IT1_5IMH-CO
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	100	IT2SMH-C
UV Black Nylon							1000	IT2SMH-M
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							100	IT3SMH-CO
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							100	IT4LHMH-CO

*4LH Series; **2S Series

UL Listed Nylon 6/6 cable ties are suitable for use in air handling spaces in accordance with Section 300-22(C) & (D) of the National Electrical Code.



Multi-Purpose Cable Ties

- General purpose cable tie for building and cable management
- UL recognized



Size	Thickness x Width	Color	Tensile Strength (lbs.)	Quantity	Cat. No.		
Miniature	4 in.	.039 x .095	Natural	18	100	B-4-18-9-C	
			UL Black		100	B-4-18-0-C	
Intermediate	6 in.	.047 x .142	Natural	40	100	B-6-40-9-C	
			UV Black		1,000	B-6-40-9-M	
	8 in.	.053 x .178	Burgundy	50	100	B-6-40-0-C	
					100	B-8-50-35-C	
Standard	8 in.	.057 x .181	50	50	100	B-11-50-35-C	
					Natural	1,000	B-8-50-9-C
					UV Black	100	B-8-50-0-C
					UV Black	1,000	B-8-50-0-M
	11 in.	.057 x .181	50	50	100	B-11-50-9-C	
					Natural	500	B-11-50-9-D
					UV Black	100	B-11-50-0-C
					UV Black	500	B-11-50-0-D
	14 in.	.057 x .181	50	50	100	B-14-50-9-C	
					Natural	500	B-14-50-9-D
					UV Black	100	B-14-50-0-C
					UV Black	500	B-14-50-0-D
Heavy-Duty	14 in.	.066 x .299	120	50	50	B-14-120-9-L	
					UV Black	50	B-14-120-0-L
	24 in.	.066 x .299	175	50	50	B-24-175-9-L	
					UV Black	50	B-24-175-0-L
36 in.	.066 x .299	175	50	50	B-36-175-9-L		
				UV Black	50	B-36-175-0-L	
48 in.	.066 x .299	175	50	50	B-48-175-9-L		
				UV Black	50	B-48-175-0-L	
Mounting Ties	8 in.	.057 x .189	50	100	B-8-50MT-9-C		
					UV Black	100	B-8MT-0-C
Mounting Pads	3/4 in. x 3/4 in.	.142 Max. Tie Width	N/A	100	BMP-750-9-C		
					1 in. x 1 in.	.189 Max Tie Width	N/A

Mounting Pads

- 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 in./19mm	.19 in./4.8mm	.05 in./1.2mm	.20 in./5.1mm	No. 4	100	IT750MP-C
UV Black Nylon						100	IT750MP-C0
Natural Nylon	.99 in./25mm	.20 in./5.0mm	.06 in./1.5mm	.20 in./5.1mm	No. 6	100	IT1000MP-C
UV Black Nylon						100	IT1000MP-C0



Screw Mounting Bases — Standard

- Deep cradle design provides 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.
Natural Nylon	.590 in./15mm	.370 in./9.40mm	.270 in./6.86mm	.062 in./1.59mm	.190 in./4.83mm	No. 6	100	IT1SMB-C
UV Black Nylon							100	IT1SMB-C0
Natural 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-C
UV Black Nylon							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

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

CONSTRUCTION PRODUCTS
BUCHANAN



Description	Quantity	Cat. No.
1/2" Grommets	25	774113
3/4" Grommets	25	774136

Spacer Shims

- Eliminates the need to cut platescrews for "GFCI" decorator devices when installing on tile, marble, etc.
- Supports loose outlets
- Prevents broken face plates
- Snaps over #6, #8, #10 screws



Description	Quantity	Cat. No.
Caterpillar	5	772450
Caterpillar	500	772451

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



Description	Quantity	Cat. No.
Stud Bushing	25	772271

Flange-Type Plastic Anchor Kit

- Kit includes: Flange-type anchors, Slotted/Phillips head screws and masonry bit
- Convenient plastic storage container



Contents	Cat. No.
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

Cable Stacker

- Perfect for centering multiple cables on 2 x 4 framing members in compliance with NEC 300.4.(2)
- Use with cable such as NM
- Plastic material is UV resistant



Description	Quantity	Cat. No.
Cable Stacker	15	BPSTCKR-15

Plastic Insulated Staples

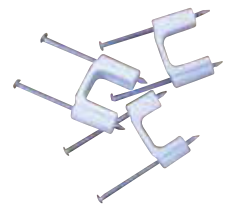
- Use with wider cable such as NM
- Plastic material is UV resistant
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity	Cat. No.
1/2 in. Insulated Staple	50/Bag	BPS2-50
	100/Bag	BPS2-1
	225/Jar	BPS2-JRL
	400/Jar	BPS2B-JR
	500/Bag	BPS2-5
	5,000/Bucket	BPS2-5M
3/4 in. Insulated Staple	100/Bag	BPS3-1
	200/Jar	BPS3-JRL
	250/Bag	BPS3-2

Plastic Insulated Cable Stacker

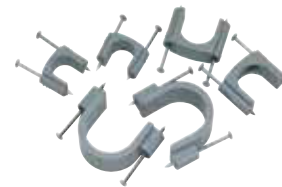
- Use with wider cable such as NM
- Plastic material is UV resistant
- High-grade carbon steel construction
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity	Cat. No.
1/2 in. 2 Cable Stacker	25/Bag	BPS2/2-25
	50/Bag	BPS2/2-50

Plastic Insulated Service Entrance Straps

- Use with service entrance cable and conduit
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity	Cat. No.
#6 SER & 1/2 in. EMT Plastic Insulated Service Entrance Strap	50/Bag	BSER6-50
#6 & #8 SEU Plastic Insulated Service Entrance Strap	50/Bag	BSEU6-50
#2 SER & 3/4 in. EMT Plastic Insulated Service Entrance Strap	25/Bag	BSER2-25
#2 SEU Plastic Insulated Service Entrance Strap	25/Bag	BSEU2-25
4/0 SER Plastic Insulated Service Entrance Strap	5/Bag	BSER4/0-5

Carbon Steel Staples

- Use with wider cable such as NM
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion



Description	Quantity	Cat. No.
1/2 in. x 1 in. Carbon Steel Staples	100/Box	BCS1-1
	500/Jar	BCS1-JR
	500/Box	BCS1-5
	5,000/Bucket	BCS1-5M
9/16 in. x 1-1/4 in. Carbon Steel Staples	100/Box	BCS2-1
	400/Jar	BCS2-JR
	500/Box	BCS2-5
	5,000/Bucket	BCS2-5M

Wire Marker Booklets

- Convenient pocket-size booklets
- Plastic, 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



Legend Assortments	Quantity	Buchanan Cat. No.	IDEAL Cat. No.
0-9	45 Markers each	775101	44-101
A-Z, 0-15, +, -, /	10 Markers each	775102	44-102
1-45	10 Markers each	775103	44-103
46-90	10 Markers each	775104	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 & 45-148) contain 450 wire markers and 450 terminal markers.
*Booklet 44-111 includes 348 wire markers and 348 terminal markers. **Booklet 44-148 contains 26 pages, one page of 45 markers per letter, 1170 total markers.

Load Center

- Contains common household legends – bedroom, living room, dryer, water heater, security system, etc.



Description	Cat. No.
Load Center Wire Marker Booklet	44-154

Write-On Marker Cards

- Use for developing personal identification systems
- Cloth write-on surface
- Accepts most writing instruments



Marker Size	Quantity	Cat. No.
5/8 in. x 1-1/2 in.	14/card	44-753

Write-On Marker Booklets*

- Use for developing personal identification systems
- Surface accepts pen, pencil or rubber stamp
- Specification: Adhesion – .25 oz./in. ultimate width

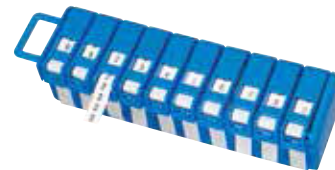


Marker Size* (In.)	Markers per page	Pages per book	Cat. No.
1 x 2-1/2	6	10	44-151
1 x 5	3	10	44-152

*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.

Wire Marker Dispenser

- Convenient pocket-size case holds ten 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: 45 oz./in. width ultimate



Description	Cat. No.
Dispenser with 0-9 legend rolls	42-301
Refill pack with one each of 0-9 legend rolls	42-399

Tyvek® is a registered trademark of E. I. du Pont de Nemours and Company.

Marking Pen

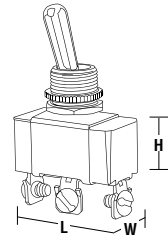
- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates



Description	Cat. No.
Marking Pen with black ink	41-697

Standard & 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



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 227 Vac	HP 125-250 VAC		
	Toggle switch with On-Off Face-plate	SPST	On-Off	Screw	2	20	10	3/4	1.13 x .57 x .61	774011
				Spade						774008
				O-Ring/Screw						774010
	Toggle Switch		On-Off	Spade						774093
	Toggle Switch w/boot	SPST	On-Off	Spade	2	20	20	3/4	1.18 x .68 x .75	774111BK†
	Toggle Switch SPDT		On-Off-On	Screw	3	20	10	3/4	1.13 x .57 x .61	774013
			On-Off-On	Spade						774027
			(On)-Off-(On)	Screw						774009
	Heavy-Duty Toggle Switch	DPST	On-Off	Screw	4	20	10	1-1/2	1.30 x .76 x .80	774014
			On-Off	Spade						774005
	Heavy-Duty Toggle Switch	DPDT	On-On	Screw	6	20	10	1-1/2	1.30 x .76 x .80	774015
			On-Off-On	Screw						774016
			On-Off-On	Spade						774003
			(On)-Off-(On)	Screw						774000
	Toggle Switch	3PDT	On-On	Screw	9	15	10*	3/4	1.31 x 1.09 x .80	774089

*250VAC, Dielectric strength: 1000V

() denotes momentary action

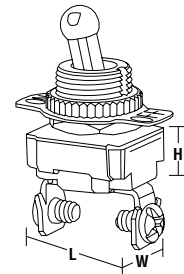
†Bulk Package of 100



Note: All spade terminals are 1/4" (.250).



Medium & 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

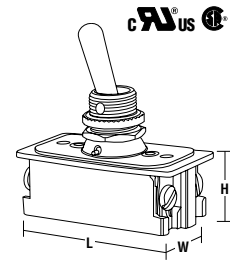



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating	Dimensions (L" x W" x H")	Cat. No.
	Bat Toggle with On-Off Faceplate	SPST	On-Off	Screw	2	6 Amps 120 VAC, 3 Amps 240 VAC	.69 x .55 x .34	774017
			On-Off	Wire Leads	2	4 Amps 250VAC/DC, 8 Amps 125VAC/DC, 10 Amps 125 VAC, 1/3 HP 125 VAC	.98 x .64 x .62	774018
	Bat Toggle*	On-Term Ground	Spade	1	21 Amps 14 VDC	.69 x .55 x .34	774007	
	Short Ball Toggle Switch	SPST	On-Off	Wire Leads	2	6 Amps 125 VAC, 3 Amps 250 VAC	.89 x .47 x .55	774002

*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




Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 227 Vac	HP 125-250 VAC		
	Heavy-Duty Toggle Switch	DPST	On-Off	Screw	4	16	8	1	1.75 x .84 x .76	774096
						20	10	1-1/2	2.09 x 1.00 x .90	774097



Toggle Switch Accessories

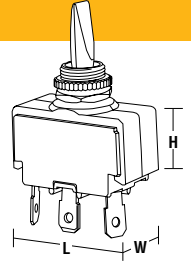
- Neoprene covers great for outdoor and other environmentally tough conditions.
- Covers screw onto toggle switches to protect from moisture, dust and dirt.
- Nickel indicator plate fits easily on most toggle switches to identify the On-Off positions



Product	Description	Mounting	Dimensions	Quantity	Cat. No.
	Toggle Switch Cover	15/32 - 32 NS-2B	.93 Height x .62 Base Dia.	2	774020

SWITCHES

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



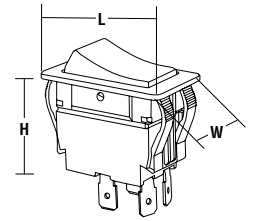
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating		Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 250 VAC		
	Double Insulated, Plastic Toggle Switch	SPST	On-Off	Screw	2	20	10	1.37 x .76 x .94	774019
		SPDT	(On)-Off-(On)	Spade	3				774004BK†




() Denotes momentary action †Bulk Package of 100



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)

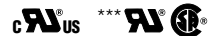


Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 227 Vac	HP 110-250 VAC		
	Black Rocker Switch	SPST	On-Off	Spade	2	20	15	2	1.70 x .97 x 1.09	774045
	Black Rocker Switch	DPDT	On-Off-On	Spade	6	20	15	2	1.70 x .97 x 1.09	774040BK†
	Red Lighted Rocker Switch***	DPST	On-Off	Spade	4	15	10*	3/4**	1.70 x .97 x 1.09	774056

*Amps 250 VAC

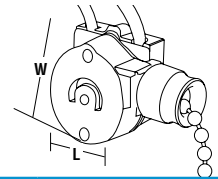
**HP 125-250VAC





†Bulk package of 100



Lever & Pull Chain Switches

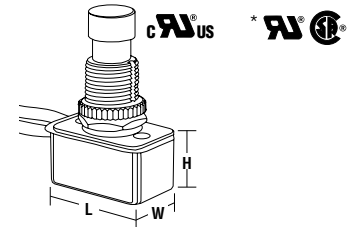
- Use for ceiling fixtures, lamps and fans
- Push in connectors for #18 AWG wire
- Wire leads are #18 AWG, 6 in. stripped wire
- 13/32 in. diameter mounting hole






Product	Description	Pull-Chain Color	Poles	Circuitry	Termination Type	Circuit	Rating			Dimensions (L" x W" x H")	Cat. No.
							Amps 125 VAC	Amps 250 Vac	Amps 125 V		
	All-Angle Lever Switch*	Nickel	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	—	1.50 x 1.28 x .50	774035
	Pull Chain	Nickel	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	3	.92 x .88 x .67	774031
	Pull Chain	Brass	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	3	.92 x .88 x .67	774032
	3-Speed Pull Chain*	Brass	SPTT	Off-On-On-On	Push-In	4 Pos - 4 Wire	6	3	—	1.43 x 1.25 x .73	774034
	3-Speed Pull Chain	Brass	SPTT	Off-On(A)-On(B)-On(A+B)	Wire Leads	4 Pos - 3 Wire	6	3	—	.87 x 1.05 x .65	774037

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



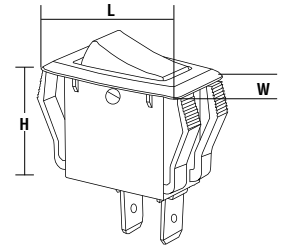
Product	Description	Actuator	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions (L" x W" x H")	Cat. No.
	Momentary Contact Push-Button Switch	Black Plastic	SPST NO	(On)-Off	Screw	2	6 Amp 120 VAC, 3 Amp 240 VAC	.88 x .54 x .35	774022
	Maintained Contact Push-Button Switch	Black Plastic	SPST	On-Off	Wire Leads	2	8 Amp 125 VAC/DC, 4 Amp 250 VAC/DC, 10 Amp 125 VAC, 1/3 HP 125	.98 x .64 x .62	774021
	Momentary Contact Push-Button Switch**	Nickel Plated	SPST NO	(On)-Off	Screw	2	15 Amp 125 VAC, 10 Amp 250 VAC	1.38 x .58 x .60	774085



() Denotes momentary action

**  

Appliance Rocker Switches

- Great for home appliances, computer equipment, automotive and industrial controls
- Appliance Rockers fit standard .55 in. x 1.12 in. panel cut outs
- Plain and lighted versions available
- Operating temperature: 32°F to 185°F (0°C to 85°C)



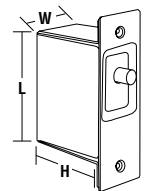
Product	Description	Rocker	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions (L" x W" x H")	Cat. No.
	Appliance Rocker Switch	Black	SPST	On-Off	Spade	2	16 Amp 1/3 HP 125 VAC, 10 Amp 1/2 HP 250 VAC	1.24 x .68 x .77	774038
			SPDT	On-On	Spade	3			774049BK†
	Appliance Rocker Switch	Red Lighted	SPST	On-Off	Spade	3*	16 Amp 1/3 HP 125 VAC, 10 Amp 1/2 HP 250 VAC	1.24 x .68 x .77	774039


*3rd terminal to power lighted rocker †Bulk Package of 100



Door Switch

- 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

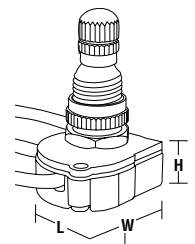




Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions (L" x W" x H")	Cat. No.
	AC/DC Door Switch Kit	White Button	SPST	Normally On-(Off)	Wire Leads	10 Amp 1/3 HP 125/250VAC	1.25 x 2.75 x 2.0	774026K

() Denotes momentary action

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



Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions (L" x W" x H")	Cat. No.
	Rotary Switch	Brass Plated	SPST	On-Off	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.97 x .80 x .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 x 1.03 x .34	774062

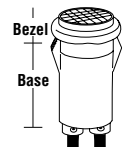
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Indicator Light Part No. System

Series	Voltage	Color	Mounting Diameter Lens Style	Terminators
77	5 - 14V	1 - Red	1 - 1/2 in. Raised	1 - 6 in. Wire Leads
	6 - 28V	2 - Green	2 - 1/2 in. Flush	2 - .187 in. Spade
	7 - 125V	3 - Amber	3 - 5/16 in. Flush	—
	8 - 250V	4 - Blue	—	—
	—	5 - Clear	—	—

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	Height (Base" x Bezel")	Cat. No.
	Flush Indicator Light	Red	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10	777121* 777121BK†
	Flush Indicator Light	Green	125V	1/3	2mA Max.	15,000	Neon	6" Wire Leads	.91 x .10	777221
	Flush Indicator Light	Amber	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10	777321
	Flush Indicator Light	Amber	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10	777321BK†

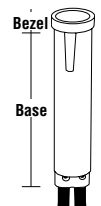
*VDE certified


†Bulk Package of 100



Miniature Indicator Lights

- Nylon body with flush transparent polycarbonate lens
- 6 in. wire leads
- 5/16 in. mounting diameter
- Lamp voltage is AC/DC



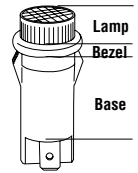
Product	Description	Lens Color	Lamp Voltage	Watts	Amp Rating	Average Life (hrs.)	Lamp Type	Termination Style	Height (Base" x Bezel")	Cat. No.
	Miniature Indicator Light	Red	125V	1/3	2mA Max.	25,000	Neon	6 in. Wire Leads	1.43 x .13	777131
		Green	125V	1/3	2mA Max.	15,000	Neon	6 in. Wire Leads	1.43 x .13	777231
		Amber	125V	1/3	2mA Max.	25,000	Neon	6 in. Wire Leads	1.43 x .13	777331
		Amber	125V	1/3	2mA Max.	25,000	Neon	6 in. Wire Leads	1.43 x .13	777331BK†

†Bulk Package of 100



Raised Indicator Lights

- Nylon body with raised transparent polycarbonate lens and stainless steel bezel, 94V-2 flammability rating
- 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	Height (Base" x Bezel")	Cat. No.
	Raised Indicator Light	Red	14V	1.2	.08	50,000	Incandescent	6" Wire Leads	.91 x .10 x .20	775111*
		Red	28V	1.2	.04	25,000	Incandescent	6" Wire Leads	.91 x .10 x .20	776111*
		Green	28V	1.2	.04	25,000	Incandescent	6" Wire Leads	.91 x .10 x .20	776211*
		Amber	28V	1.2	.04	25,000	Incandescent	6" Wire Leads	.91 x .10 x .20	776311*
		Red	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10 x .20	777111*
		Green	125V	1/3	2mA Max.	15,000	Neon	6" Wire Leads	.91 x .10 x .20	777211*
		Amber	125V	1/3	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10 x .20	777311*
		Red	250V	1/2	2mA Max.	25,000	Neon	6" Wire Leads	.91 x .10 x .20	778111*
		Green	250V	1/2	2mA Max.	15,000	Neon	6" Wire Leads	.91 x .10 x .20	778211*
	Raised Indicator Light	Green	28V	1.2	.04	25,000	Incandescent	.187" Spade	1.09 x .10 x .20	776212BK†
		Red	125V	1/3	2mA Max.	25,000	Neon	.187" Spade	1.09 x .10 x .20	777112
										776112BK†
		Green	125V	1/3	2mA Max.	15,000	Neon	.187" Spade	1.09 x .10 x .20	777212
									777212BK†	

*VDE certified

†Bulk Package of 100



INDICATOR LIGHTS

Heat Shrink & Splice Kits

- Easy to install underground splice kits to help save time and money
- Protects cable during storage with watertight seal provided by IDEAL End Caps

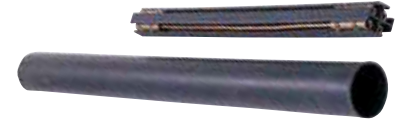


HEAT SHRINK



Thermo-Shrink® UF Splice Kits

- Direct burial rated
- 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
- UV resistant



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
- UV resistant



Description	Cat. No.
Underground Splice Kit – 8 to 4 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
- UV resistant
- 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® Heat Shrink Kit

- Kit includes: HEAT ELITE PRO™ Heat Gun 46-203, Eleven sizes of thin-wall heat shrinkable tubing disks (3/64 in. – 1 in.) 46-600 through 46-610, Small deflector 46-941, Premium T®-Cutter Wire Cutter 45-123



Description	Cat. No.
Thermo-Shrink® Heat Shrink Kit	46-007

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 486D 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
- RoHS compliant
- UV resistant



Normal Size (in.)	Expanded I.D. (Min.)	Nominal Recovered I.D. (Max.)	Recovered Wall Thickness +/- 10%	Cable Range AWG*	Length (Pkg.)	Cat. No.
3/64	0.063"/1.6mm	0.024"/0.6mm	0.013"/0.33mm	22-18	4 ft. (Disk)	46-600
1/16	0.079"/2.0mm	0.031"/0.8mm	0.014"/0.36mm	16	4 ft. (Disk)	46-601
3/32	0.122"/3.1mm	0.047"/1.2mm	0.017"/0.44mm	14-12	4 ft. (Disk)	46-602
1/8	0.146"/3.7mm	0.063"/1.6mm	0.017"/0.44mm	24-20	6 in. (Bag)	46-310
					4 ft. (Disk)	46-603
					1,000 ft. (Spool)	46-312
3/16	0.205"/5.2mm	0.094"/2.4mm	0.020"/0.50mm	20-14	6 in. (Bag)	46-313
					4 ft. (Disk)	46-604
					1,000 ft. (Spool)	46-315
1/4	0.268"/6.8mm	0.126"/3.2mm	0.022"/0.56mm	14-8	6 in. (Bag)	46-316
					4 ft. (Disk)	46-605
					500 ft. (Spool)	46-318
5/16	0.346"/8.8mm	0.157"/4.0mm	0.022"/0.56mm	10-6	4 ft. (Disk)	46-606
3/8	0.421"/10.7mm	0.185"/4.7mm	0.022"/0.56mm	8-4	6 in. (Bag)	46-319
					4 ft. (Disk)	46-607
					200 ft. (Spool)	46-321
1/2	0.539"/13.7mm	0.252"/6.4mm	0.026"/0.65mm	4-1	6 in. (Bag)	46-322
					4 ft. (Disk)	46-608
					200 ft. (Spool)	46-324
3/4	0.807"/20.5mm	0.374"/9.5mm	0.027"/0.69mm	2-250 MCM	6 in. (Bag)	46-325
					4 ft. (Disk)	46-609
					200 ft. (Spool)	46-327
1	1.043"/26.5mm	0.500"/12.7mm	0.031"/0.80mm	2/0-500 MCM	6 in. (Bag)	46-328
					4 ft. (Disk)	46-610
					100 ft. (Spool)	46-330

*Reference only - Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.

Specifications



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	1014Ωcm
Copper corrosion	UL 224	Pass
Chemical resistance	UL 224	Pass
Longitudinal shrinkage	UL 224	0±5%
Eccentricity	UL 224	30%

HEAT SHRINK

Thermo-Shrink® Medium-Wall Heat Shrinkable Tubing End Caps

- Creates a watertight seal to protect ends of power and control cords
- Protects 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 polyolefin, coated with specially designed hot melt adhesive
- UV resistant



Expanded I.D. (Min.)	Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Dia. Range*	Length	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

*Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.

Specifications

Property	Test Method	Typical Data
Operating Temperature	IEC 216	-55°C to +110°C
Tensile Strength	ASTM D 638	>14 MPa
Elongation at break	ASTM D 638	>400%
Density	ASTM D 792	1.05g/cm ³
Elongation of break after again	150°C, 168 hrs.	>300%
Dielectric strength	IEC 243	>15KV/mm
Volume resistance	IEC 93	1014Ωcm



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
- Rated for 600V, 90°C continuous use

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	46-343
					9	46-344
					48	46-346
TS-46-750	.750	.240	.090	8-1/0 AWG	6	46-347
					9	46-348
					48	46-350
TS-46-1100	1.100	.350	.120	2-4/0 AWG	6	46-351
					9	46-352
					48	46-354
TS-46-1500	1.500	.470	.160	3/0 AWG-400 KCMIL	9	46-356
					12	46-357
					48	46-358
TS-46-2000	2.000	.630	.160	250-750 KCMIL	9	46-369
					18	46-371
					48	46-372

*Reference only. Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.



Specifications

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	1013ohm-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.

HEAT SHRINK

Heat Elite Heat Gun Kit

- Temperature range: 660°-930°F (300°-500°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
- Kit Includes: Heat Elite Heat Gun (1200 Watts) 46-202, Small Deflector 46-941 and Wide-Slot Adapter 46-954



Description	Cat. No.
Heat Elite Heat Gun Kit	46-202



HEAT ELITE PRO™ Heat Gun Kit

- Temperature range: 180°F - 1020°F (80° - 550°C)
- Double-insulated power cord
- 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
- Kit Includes: HEAT ELITE PRO™ Heat Gun (1400 Watts) 46-203, Small Deflector 46-941, Reduction Adapter 46-950 and Wide-Slot Adapter 46-954



Description	Cat. No.
HEAT ELITE PRO™ Heat Gun Kit	46-203



Heat Elite Plus LCD Heat Gun Kit

- Temperature range: 180° - 1200°F (80° - 650°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
- Infinite temperature adjustment
- Kit Includes: Heat Elite Plus LSD Heat Gun (1500 Watts) 46-204, Small Deflector 46-941, Welding Adapter 46-952, Solder Reflector Adapter 46-953, Overlap Adapter 46-955, Pressure Roller 46-956



Description	Cat. No.
Heat Elite Plus LCD Heat Gun Kit	46-204



Heat Gun Accessories



Description	For Use With:	Cat. No.
Small Deflector, 1-1/4 in. diameter	46-202, 46-203, 46-204	46-941
Reduction Adapter	46-203, 46-204	46-950
Glass Protection Adapter	46-202, 46-203, 46-204	46-951
Welding Adapter	46-203, 46-204	46-952
Solder Reflector Adapter	46-204	46-953
Wide-Slot Adapter	46-202, 46-203, 46-204	46-954
Overlap Adapter	46-203, 46-204	46-955
Pressure Roller	46-204	46-956

Lockout/Tagout

Your Safety is our #1 concern.

A leader in personal safety for professional electricians, IDEAL Safety, Health and Environment products comply with ASTM requirements and OSHA regulations.

Every day we are protecting lives with the products we provide from 1000 volt insulated tools to Lockout/Tagout equipment, Clamp Meters, S-Class® Fish Tapes and specialty connectors and more!

IDEAL continuously works on methods and equipment that provide the maximum in performance to assure your safety and health while delivering better environment solutions that leave a small footprint.



Training...essential in keeping you safe whatever the job.

The proper use of materials and tools can mean the difference to your personal safety and health. IDEAL provides state-of-the-art training to give you the best methods and utilization of this equipment through hands-on demonstrations, peer discussions and on-site applications.

- Training consists of several proven methods
- Lockout/Tagout Safety and Procedures
 - Arc Flash Safety and 1000V Insulated Tools
 - Test and Measurement Equipment and procedures

For more details on available training programs, contact your IDEAL sales representative.

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
- Kit Includes: Hinged Single-Pole Breaker Lockouts (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, Striped Lockout Tags – Do Not Operate (5) 44-849, Universal Multi-Pole Breaker Lockout (1) 44-783, 110V Plug Lockout (1) 44-818, Zipper Pouch IA-3240



Description	Cat. No.
Basic Lockout/Tagout Kit	44-970

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
- Kit Includes: 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, Striped Lockout Tags – Do Not Operate (2) 44-849, 110V Plug Lockout (1) 44-818, Zipper Pouch (1) IA-3240



Description	Cat. No.
Starter Lockout/Tagout Kit	44-973

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
- Kit Includes: 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)



Description	Cat. No.
Personal Lockout Pouch Kit	44-969

*Masterlock equivalent. **Keyed alike and master keyed padlocks can be special ordered by contacting IDEAL Customer Service.

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

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
- Kit Includes: Hinged Single-Pole Breaker Lockouts (3) 44-810, Universal 277V Breaker Lockouts/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, Striped Lockout Tags - Do Not Operate (5) 44-849, Cleat for 277V Breaker Lockout (1) 44-785, Cleat for 480/600V Breaker Lockout (1) 44-786, Universal Multi-Pole Breaker Lockouts (2) 44-783, Zipper Pouch (1) IA-3240



Description	Cat. No.
Standard Lockout/Tagout Kit	44-971

Quantities listed in kit description are for individual pieces, not carded packages.

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
- Kit Includes: Hinged Single-Pole Breaker Lockouts (5) 44-810, Universal 277V Breaker/Single Pole Lockouts (3) 44-809, 480/600V Breaker Lockout (1) 44-807, Wall Switch Lockouts (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, Striped Lockout Tags - Do Not Operate (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 Lockouts (3) 44-783, Tool Box* (1) IA-3241



Description	Cat. No.
Plant Facility Lockout/Tagout Kit	44-972

Quantities listed in kit description are for individual pieces, not carded packages. *Tool box color may vary.

Job Site Lockout/Tagout Kit

- Perfect kit for individual workers; padlocks keyed-alike for worker convenience
- Excellent selection of lockout/tagout devices, tags and keyed-alike padlocks for most applications
- Kit Includes: Circuit Breaker Lockouts - tall and wide toggles (2) 44-956, Circuit Breaker Lockouts - 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



Description	Cat. No.
Job Site Lockout/Tagout Kit	44-979

*Masterlock equivalent. **Reference part number is keyed-different, keyed-alike and master-keyed products can be special ordered by contacting IDEAL Customer Service.

***Tool box color may vary.

Industrial Lockout/Tagout Kit

- An industrial selection of lockout/tagout devices
- Polypropylene plastic tool box resists oil and chemicals
- Kit Includes: Hinged Single-Pole Breaker Lockouts (3) 44-810, Universal 277V Breaker/Single Pole Lockouts (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 Hasps (2) 44-800, Red Labeled Lockout (1) 44-791, 220/550V Plug Lockout (1) 44-819, Striped Lockout Tags - Do Not Operate (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 Lockouts (2) 44-783, Tool Box* (1) IA-3241



Description	Cat. No.
Industrial Lockout/Tagout Kit	44-974

Quantities listed in kit description are for individual pieces, not carded packages. *Tool Box color may vary.

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
- Kit Includes: Hinged Single-Pole Breaker Lockouts (2) 44-810, Universal Single-Pole Breaker Lockouts (2) 44-809, Cleat for Universal Single-Pole Lockouts (2) 44-785, Universal Multi-Pole Breaker Lockouts (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 Hasps (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, Pneumatic Lockout (1) 44-774,



Description	Dimensions (in.) (H x W x D)	Cat. No.
Industrial Lockout/Tagout Station	16 x 14 x 6	44-975

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



44-806

Description	Cat. No.
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 Kit includes: Ten-Lock Station Board (44-805), ten red Safety Padlocks (44-916), 24 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-806

Hinged Single-Pole Breaker Lockouts

- 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



Description	Quantity	Cat. No.
Hinged Single-Pole Breaker Lockouts	3	44-810
Hinged Single-Pole Breaker Lockouts	100	44-1810

Universal 120/277V Breaker Lockouts

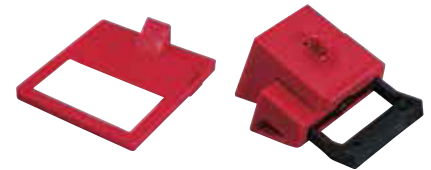
- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew



Description	Quantity	Cat. No.
Single-Breaker Lockouts	3	44-809
Cleat for Single-Pole Breaker Lockouts	3	44-785
Single-Pole Breaker Lockouts	50	44-1809

480/600V Single/Multi-Pole Breaker Lockouts

- 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
- Blade design provides tighter grip with less torque on thumbscrew



Description	Quantity	Cat. No.
480/600V Single/ Multi-Pole Lockout	1	44-807
480/600V Single/Multi-Pole Lockouts	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
- Easy to install – no tools required



Description	Quantity	Cat. No.
Large Breaker Lockout	1	44-823

Multi-Pole Breaker Lockout

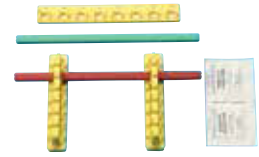
- Works with most major multi-pole breakers with tie-bar type switches including GE, ITE Sylvania, Challenger, Bryant, Westinghouse, Square D (2/3 poles) and General Switch Co.
- Easy to install – thumbscrew secures and locks tie bar in place; no cable ties or tools required



Description	Quantity	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	Quantity	Cat. No.
Oversized Circuit Breaker System	1	44-822

Circuit Breaker Lockouts

- 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	44-956
Circuit Breaker Lockout	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
- **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 thumb-screw to clamp lockout securely onto switch, then snap the cover closed to prevent thumbwheel from being loosened.



Description	Quantity	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

Plug Lockouts

- Accommodates a variety of electrical plug and cord sizes to prevent accidental connection or disconnection
- Durable plastic body resists wear, chemicals and job-site abuse
- Accommodates cable ties or padlocks (with up to 3/8 in. shackles)



44-819

Description	Size (in.)	Cat. No.
Plug Lockouts - 100V	2 x 2 x 3-1/2	44-818
Plug Lockouts - 220/550V	3-1/4 x 3-1/4 x 7	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, 44-793 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	44-792
Plug Lockout	44-793

Electric Plug Lockout

- Slides over cord prongs and locks in place to prevent cord from being plugged into an outlet
- Cannot be removed without key
- Works on any 2- or 3-prong plug



Description	Cat. No.
Electric Plug Lockout	44-782

Wall Switch Lockouts

- Universal Wall Switch Lockout locks out both toggle and decora wall switches
- Universal design assures switch is locked on or off. Hinges open for unobstructed normal switch operation
- Standard wall switch lockout fits most wall-mounted single or three-way electrical switches



44-772



44-789

Description	Quantity	Cat. No.
Universal Wall Switch	1	44-772
Standard Wall Switch	1	44-789

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 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

Cable Lockout

- Unique hasp lockout device accepts up to six 9/32 in. padlocks and comes with a 6 ft. plastic-coated steel cable



Description	Cat. No.
Cable Lockout, 6 ft. cable	44-829

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 thermoplastic bodies withstand chemicals and perform effectively in extreme conditions, temperature range: -50°F (-46°C) to +350°F (177°C)



44-817

Valve Size	Quantity	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.)	1	44-817

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



44-847

Valve Size	Max. Shackle Length	Material	Cat. No.
1/2 to 1-1/4 in.	—	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

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



Bumper Color	3/4 In. Shackle Clearance Cat. No.	2 In. Shackle Clearance Cat. No.
Blue	44-900	44-901
Red	44-906	44-907

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 body; Four colors for easy identification
- Key retention ensures keys do not get lost while not in use and that padlocks are not left untouched
- 1-1/2 in. shackle clearance; 1-1/2 in. wide lock with 1/4 in. shackle
- 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

Lock Labels

- Easy identification of employees' locks
- Write-on, vinyl labels with peel-off adhesive backing
- Polyester over laminate protects label



Description	Quantity	Cat. No.
Lock Labels	8 labels	44-898

Safety Lockout Hasps

- 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



Description	Jaw Diameter	Quantity	Cat. No.
Safety Lockout Hasp	1 in.	3	44-800
Safety Lockout Hasp	1-1/2 in.	2	44-801
Labeled Safety Lockout Hasp – Do Not Operate, Blue	—	1	44-790
Labeled Safety Lockout Hasp – Do Not Operate, Red	—	1	44-791
Labeled Safety Lockout Hasp – Do Not Operate, Red	—	50	44-1791

Heavy-Duty Lockout Tags

- High-visibility lettering
- Laminated plastic tags have non-fade legends, resist corrosive and harsh environmental conditions grommet
- Vinyl tags are silk screened with a 7/8 in. metal grommet; fastener included
- Exceeds OSHA's 50-lb. pullout requirement
- Matte finish for easy writing surface



Description	Type	Quantity	Cat. No.
Heavy-Duty Lockout Tag – Do Not Operate	Heavy-Duty Laminated	5/card	44-830
	Heavy-Duty Laminated	100/box	44-1830
	Economy Vinyl	25/bag	44-848
Heavy-Duty Lockout Tag – Do Not Operate - Electricians at Work	Heavy-Duty Laminated	5/card	44-832
	Economy Vinyl	25/bag	44-843
Heavy-Duty Lockout Tag – Do Not Operate - (red striped background)	Heavy-Duty Laminated	5/card	44-833
	Heavy-Duty Laminated	100/box	44-1833
	Economy Vinyl	25/bag	44-849

Bilingual Lockout Tags

- Spanish/English tags provide extra safety and information in bilingual situations
- High-visibility lettering
- Laminated vinyl 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



Description	Quantity	Cat. No.
Bilingual Lockout Tags – Do Not Operate (striped)	5	44-841

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.



Description	Type	Size	Quantity	Cat. No.
NEC Arc Flash, Warning	Self-Sticking Polyester	3-1/2 in. x 5 in.	5	44-892
NEC Arc Flash, Warning	Self-Sticking Polyester	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, Warning	Self-Sticking Polyester	5 in. x 7 in.	5	44-894
NEC Arc Flash, Danger	Self-Sticking Polyester	4 in. x 6 in.	5	44-895
NEC Arc Flash, Warning	Self-Sticking Polyester	7 in. x 10 in.	1	44-896

Lockout Signs

- Resistant to both chemicals and abrasion – protected graphics for indoor and outdoor use



Legend	Material	Size (In.)	Cat. No.
Lockout Sign – OSHA Regulation 36 in. clearance	Self-sticking polyester	3-1/2 x 10	44-877
Lockout Sign – OSHA Regulation (Bilingual) 36 in. clearance	Self-sticking polyester	7 x 10	44-878
Lockout Sign – 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.
Safety Sign – Danger–High Voltage	Fiberglass	10 x 14	44-862
Safety Sign – Danger–High Voltage	Self-Sticking Polyester	7 x 10	44-863
Safety Sign – Danger–High Voltage–Keep Out	Fiberglass	10 x 14	44-880
Safety Sign – Danger–High Voltage–Keep Out	Self-Sticking Polyester	7 x 10	44-881
Safety Sign – Danger–High Voltage–Spanish	Self-Sticking Polyester	7 x 10	44-865

Voltage & Conduit Markers

- Identify junction boxes, switches, circuit breakers, raceways, pipe and fuse boxes
- Non-conductive for user safety
- High-adhesion properties with easy removability
- Vinyl-impregnated cloth construction for long-lasting durability
- Resist abrasion, moisture, dirt and oil
- Non-smear, black legend on bright orange background for high visibility
- Specifications: Temperature Range: -40°F to 180°F (-40°C to 82°C)
Adhesion: 45 oz./in. width ultimate

440 VOLTS

**240 VOLTS 240 VOLTS
240 VOLTS 240 VOLTS**



Description	Large Cat. No. (2-1/4 in. x 9 in.) 1/card	Medium Cat. No. (1-1/8 in. x 4-1/2 in.) 4/card	Small Cat. No. (2-1/4 in. x 1/2 in.) 18/card
120/208V	44-295	44-296	—
277/480V	44-298	44-299	—
120V	—	44-353	—
208V	—	44-355	—
240V	—	44-358	—
277V	—	—	44-410
480V	44-314	44-364	—
Danger	44-289	—	—
High Voltage	44-292	—	—

Barricade Tapes

- High-visibility safety yellow or red polyethylene construction with bold black letters
- Meets OSHA specifications Section 1010.144 for marking physical hazards



Description	Color	Size	Thickness	Cat. No.
Barricade Tape – Caution	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-001
Barricade Tape – Caution Do Not Enter	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-002
Barricade Tape – Caution High Voltage	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-003
Barricade Tape – Danger	Red	3 in. x 1,000 ft.	4.0 Mils	42-051
Barricade Tape – Danger High Voltage Keep Out	Red	3 in. x 1,000 ft.	4.0 Mils	42-052
Barricade Tape – Caution Do Not Enter	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-012

Specifications:

Property	Method	Value
Elongation	ASTMD882-75B	≥ 400%
Composition	IDEAL Specs.	LDPE
Tensile Strength	ASTMD882	2,350 PSI TD 1,893 PSI MD

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



Description	Color	Size	Cat. No.
Detectable Underground Tape – Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-201
Detectable Underground Tape – Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-251
Detectable Underground Tape – Caution Buried Fiber Optic Line Below	Orange	6 in. x 1,000 ft.	42-252

Specifications:

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	32 lbs./in. (15,000 PSI)

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
- Recommended Burial Depth: 3 in. Tape – 4 to 6 in.
6 in. Tape – less than 12 in.



Description	Color	Size	Cat. No.
Non-Detectable Underground Tape – Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-101
Non-Detectable Underground Tape – Caution Buried Electric Line Below	Yellow	3 in. x 1,000 ft.	42-102
Non-Detectable Underground Tape – Caution Buried Telephone Line Below	Orange	3 in. x 1,000 ft.	42-103
Non-Detectable Underground Tape – Caution Buried Fiber Optic Line Below	Orange	3 in. x 1,000 ft.	42-104
Non-Detectable Underground Tape – Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-151
Non-Detectable Underground Tape – Caution Buried Electric Line Below	Yellow	6 in. x 1,000 ft.	42-152

Specifications:

Property	Method	Value
Thickness	ASTMD2103	4.0 MILS
Elongation	ASTMD882-75B	500%
Composition	IDEAL Specs.	LDPE
Tensile Strength	ASTMD882	2,750 PSI



Python™ Adjustable Locking Cable

Python™ Adjustable Locking Cable secures anything within its grasp. The only locking cable that is right length for your application. This patented product holds flexible steel cable tight at any position

- Infinite Locking Positions – Patented lock holds cable tight 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 through Customer Service.

LOCKOUT/TAGOUT

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764
Airpax		Airpax	1									
American Switch		C	1									
Bryant		BR	1									
Challenger		C	1									
Challenger	Type C	C	2-3									
Challenger	Same as W DK	CDK										
Challenger		LM	1									
Challenger		NEJ	1-2									
Crouse Hinds		MP	2									
Cutler Hammer		BA	1									
Cutler Hammer		CH	2-3									
Cutler Hammer		CH2	4									
Cutler Hammer		CHB	3									
Cutler Hammer	Quicklag	BAB	1									
Cutler Hammer	Quicklag	BAB	2-3									
Cutler Hammer	BR	BD	1									
Cutler Hammer	BR	BR	1									
Cutler Hammer	BR	BR	2-3									
Cutler Hammer	BR	BRH	1									
Cutler Hammer	BR	BRH	2-3									
Cutler Hammer	BR	BRHH	2									
Cutler Hammer	CH	CH	1									
Cutler Hammer	CH	CH	2-3									
Cutler Hammer	CH	CH2	4									
Cutler Hammer	CH	CHB	1									
Cutler Hammer	CH	CHB	2-3									
Cutler Hammer	K-Frame	CHKD	2-3									
Cutler Hammer	L-Frame	CHLD	2-4									
Cutler Hammer	M-Frame	CHMDL	2-3									
Cutler Hammer	N-Frame	CHND	2-4									
Cutler Hammer	CH	CHP	1									
Cutler Hammer	CH	CHP	2-3									
Cutler Hammer	CH	CHQ	1									
Cutler Hammer	CH	CHQ	2									
Cutler Hammer	CH	CHSW	2-3									
Cutler Hammer	K-Frame	CKD	2-3									
Cutler Hammer	CL	CL	1									
Cutler Hammer	CL	CL	2									
Cutler Hammer	L-Frame	CLD	2-4									
Cutler Hammer	CL	CLR	1-2									
Cutler Hammer	M-Frame	CMDL	2-3									
Cutler Hammer	N-Frame	CND	2-4									
Cutler Hammer	N-Frame	CNDC	2-4									
Cutler Hammer	CH	CSR	1									
Cutler Hammer	K-Frame	DK	2-3									
Cutler Hammer	E125-Frame	E125B										
Cutler Hammer	E125-Frame	E125E										
Cutler Hammer	E125-Frame	E125H										
Cutler Hammer	E125-Frame	E125S										
Cutler Hammer	F-Frame	ED	2-4									
Cutler Hammer	F-Frame	EDC	2-4									
Cutler Hammer	F-Frame	EDH	2-4									
Cutler Hammer	E125-Frame	EFH	1-4									
Cutler Hammer	E125-Frame	EGB	1-4									
Cutler Hammer	E125-Frame	EGE	1-4									
Cutler Hammer	E125-Frame	EGS	1-4									
Cutler Hammer		EHC										



Lockout/Tagout

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD 00) 44-768	Clamp On (universal) 44-764
Cutler Hammer	F-Frame	EHD	1-4									
Cutler Hammer	Tri Pac Cur. Lim	FB	2-3									
Cutler Hammer		FC										
Cutler Hammer	F-Frame	FD	1-4									
Cutler Hammer	F-Frame	FDB	2-4									
Cutler Hammer	F-Frame	FDC	2-4									
Cutler Hammer	F-Frame	FS	2-3									
Cutler Hammer	G-Frame	GB	1-3									
Cutler Hammer	G-Frame	GC	1-3									
Cutler Hammer		FC										
Cutler Hammer	F-Frame	FD	1-4									
Cutler Hammer	F-Frame	FDB	2-4									
Cutler Hammer	F-Frame	FDC	2-4									
Cutler Hammer	F-Frame	FS	2-3									
Cutler Hammer	G-Frame	GB	1-3									
Cutler Hammer	G-Frame	GC	1-3									
Cutler Hammer	Tri Pac Cur. Lim	FB	2-3									
Cutler Hammer		FC										
Cutler Hammer	F-Frame	FD	1-4									
Cutler Hammer	F-Frame	FDB	2-4									
Cutler Hammer	F-Frame	FDC	2-4									
Cutler Hammer	F-Frame	FS	2-3									
Cutler Hammer	G-Frame	GB	1-3									
Cutler Hammer	G-Frame	GC	1-3									
Cutler Hammer	G-Frame	GD	1-3									
Cutler Hammer	G-Frame	GHB	1-3									
Cutler Hammer	G-Frame	GHBGFEP	1									
Cutler Hammer	G-Frame	GHC	1-3									
Cutler Hammer	G-Frame	GHCGFEP	1									
Cutler Hammer	Quicklag	HBAW	1									
Cutler Hammer	Quicklag	HBAW	2-3									
Cutler Hammer	Quicklag	HBAX	1									
Cutler Hammer	Quicklag	HBAX	2-3									
Cutler Hammer		HFD	1-4									
Cutler Hammer	G-Frame	HGHB	1									
Cutler Hammer	G-Frame	HGHC	1									
Cutler Hammer		HJD	2-4									
Cutler Hammer	K-Frame	HKD	2-4									
Cutler Hammer	L-Frame	HLD	2-4									
Cutler Hammer	L-Frame	HMCP	3									
Cutler Hammer	J-Frame	HMCP	3									
Cutler Hammer	K-Frame	HMCP	3									
Cutler Hammer	L-Frame	HMCP	3									
Cutler Hammer	F-Frame	HMCP	3-4									
Cutler Hammer	M-Frame	HMDL	2-3									
Cutler Hammer	M-Frame	HMDLB	2-3									
Cutler Hammer	N-Frame	HND	2-4									
Cutler Hammer	Quicklag Type P	HQP	1									
Cutler Hammer	Quicklag Type P	HQP	2									
Cutler Hammer	J-Frame	JD	2-4									
Cutler Hammer	J-Frame	JDB	2-3									
Cutler Hammer	J-Frame	JDC	2-4									
Cutler Hammer	K-Frame	KD	2-4									
Cutler Hammer	K-Frame	KDB	2-4									
Cutler Hammer	K-Frame	KDC	2-4									
Cutler Hammer	Tri Pac Cur. Lim	LA	2-3									
Cutler Hammer	L-Frame	LD	2-4									

IDEAL
Standard Breaker Lockouts **EZ Panel Loc™**

Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD QD) 44-768	Clamp On (universal) 44-764
Cutler Hammer	L-Frame	LDB	2-3									
Cutler Hammer	L-Frame	LDC	2-4									
Cutler Hammer		LH	3									
Cutler Hammer		LHB	3									
Cutler Hammer	Type CC	LJ										
Cutler Hammer		MA	2-3									
Cutler Hammer		MC	2-3									
Cutler Hammer	M-Frame	MD	2-3									
Cutler Hammer	M-Frame	MDL	2-3									
Cutler Hammer	M-Frame	MDS	2-3									
Cutler Hammer	Tri Pac Cur. Lim	NB	2-3									
Cutler Hammer	N-Frame	ND	2-4									
Cutler Hammer	N-Frame	NDC	2-4									
Cutler Hammer	N-Frame	OPTIM	3									
Cutler Hammer	Tri Pac Cur. Lim	PB	2-3									
Cutler Hammer	Quicktag	QBGF	1									
Cutler Hammer	Quicktag	QBGF	2									
Cutler Hammer	Quicktag	QBGFEP	1									
Cutler Hammer	Quicktag	QBGFEP	2									
Cutler Hammer	Quicktag	QBHF	1									
Cutler Hammer	Quicktag	QBHFEP	1									
Cutler Hammer	Quicktag	QBHW	1									
Cutler Hammer	Quicktag	QBHW	2-3									
Cutler Hammer	Quicktag Type P	QC	1									
Cutler Hammer	Quicktag Type P	QC	2-3									
Cutler Hammer	Quicktag Type P	QCD	1									
Cutler Hammer	Quicktag Type P	QCD	2-3									
Cutler Hammer	Quicktag	QCGF	1									
Cutler Hammer	Quicktag	QCGFEP	1									
Cutler Hammer	Quicktag	QCHGF	1									
Cutler Hammer	Quicktag	QCHGFEP	1									
Cutler Hammer	Quicktag	QCHW	1									
Cutler Hammer	Quicktag	QCHW	2-3									
Cutler Hammer	Quicktag	QHCW	1									
Cutler Hammer	Quicktag	QHCW	2-3									
Cutler Hammer	Quicktag	QHCX	1									
Cutler Hammer	Quicktag	QHCX	2-3									
Cutler Hammer	Quicktag	QHPW	1									
Cutler Hammer	Quicktag	QHPW	2-3									
Cutler Hammer	Quicktag	QHPX	1									
Cutler Hammer	Quicktag	QHPX	2-3									
Cutler Hammer	Ground Fault	QPGF	1									
Cutler Hammer		QPGF	2									
Cutler Hammer	Ground Fault	QPGFEP	1									
Cutler Hammer		QPGFEP	2									
Cutler Hammer	Ground Fault	QPHGF	1									
Cutler Hammer	Ground Fault	QPHGFEP	1									
Cutler Hammer	Quicktag	QPHW	1									
Cutler Hammer	Quicktag	QPHW	2-3									
Fed. Pacific Elec.		BAB	1									
Fed. Pacific Elec.		NA-single	3									
Fed. Pacific Elec.		NA-tie bar	2									
Fed. Pacific Elec.		NB	1									
Fed. Pacific Elec.		NBH GFI	1									
Fed. Pacific Elec.		NE/NEF										
Fed. Pacific Elec.		NEJ										
Fed. Pacific Elec.		NFJ										

Lockout/Tagout



Lockout/Tagout

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD 00) 44-768	Clamp On (universal) 44-764
Fed. Pacific Elec.		NJ										
Fed. Pacific Elec.		NJL										
Fed. Pacific Elec.		NM										
Fed. Pacific Elec.		NP-single	1									
Frank Adams	FA Quicklag	P	1									
General Electric	Type C	HQC	3									
General Electric	SE150	SED	2-3									
General Electric	SE150	SEH	2-3									
General Electric	SE150	SEL	2-3									
General Electric	SE150	SEP	2-3									
General Electric	SF250	SFH	2-3									
General Electric	SF250	SFL	2-3									
General Electric	SF250	SFP	2-3									
General Electric	Tri Break	TB1										
General Electric	Tri Break	TB4										
General Electric	Tri Break	TB6										
General Electric	Tri Break	TB8										
General Electric	Mag Break	TBC4										
General Electric	Mag Break	TBC6										
General Electric	Mag Break	TBC8										
General Electric	E150	TE	1-3									
General Electric	E150	TEB	1-3									
General Electric	E150	TED	1-3									
General Electric		TEF	1-3									
General Electric	E150	TEL	3									
General Electric	Mag Break	TEML	3									
General Electric	E150	TEY	1-3									
General Electric	E150	TF	1-3									
General Electric	Mag Break	TFC	3									
General Electric	F225	TFJ	2-3									
General Electric	F225	TFK	2-3									
General Electric	F225	TFL	3									
General Electric	Like TED	THED	1-3									
General Electric	Like TED	THEF										
General Electric	F225	THFK	2-3									
General Electric	Q Line	THHQB	2-3									
General Electric	Q Line	THHQB-A	1									
General Electric	Q Line	THHQB-S	1									
General Electric	Q Line	THHQC	1-3									
General Electric	Q Line	THHQC-A	1									
General Electric	Q Line	THHQC-S	1									
General Electric	Q Line	THHQL	2-3									
General Electric	Q Line	THHQL-A	1									
General Electric	Q Line	THHQL-S	1									
General Electric	J600	THJK4	2-3									
General Electric	J600	THJK6	2-3									
General Electric	K1200	THKM12	2-3									
General Electric	K1200	THKM8	2-3									
General Electric	THLC Current Limiting	THLC1	3									
General Electric	Q Line	THQB	2-3									
General Electric	Q Line	THQB-A	1									
General Electric	Q Line	THQB-S	1									
General Electric	Q Line	THQC	2-3									
General Electric	Q Line	THQC-A	1									
General Electric	Q Line	THQC-AL	2-3									
General Electric	Q Line	THQC-S	1									

IDEAL
Standard Breaker Lockouts **EZ Panel Loc™**

Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD Q0) 44-768	Clamp On (universal) 44-764
General Electric	Q Line	THQD	2-3									
General Electric	Q Line	THQDBL	3									
General Electric	Q Line	THQL	2-3									
General Electric	Q Line	THQL-A	1									
General Electric	Q Line	THQL-S	1									
General Electric		TJ4	3									
General Electric	Mag Break	TJC										
General Electric	TJD432400WL	TJD	2-3									
General Electric	J600	TJJ	2-3									
General Electric	J600	TJK4	2-3									
General Electric	TJK636F000	TJK6	2-3									
General Electric	TJS3604S	TJS										
General Electric	MicroVersaTrip	TK4V	3									
General Electric	Mag Break	TKC	3									
General Electric	TKM4365000	TKM4										
General Electric	K1200	TKM8	2-3									
General Electric		TKMA8	3									
General Electric	Q Line	TQB	2-3									
General Electric	Q-Line	TQB-A	1									
General Electric	Q-Line	TQB-S	1									
General Electric	Q Line	TQC	2-3									
General Electric		TQC-A	1									
General Electric		TQC-S	1									
General Electric	Q Line	TQD	2-3									
General Electric	Q Line	TQL-A	1									
General Electric	Q Line	TQL-S	1									
Heinemann		LB	1									
Heinemann		LF	1									
Heinemann		LJ	1									
Merlin Gerin	400 Amp series	CJ	3									
Siemens ITE		BL	1									
Siemens ITE		BL	2-3									
Siemens ITE		BL	1									
Siemens ITE		BL	2-3									
Siemens ITE		BLF-GFI	2									
Siemens ITE		BLH	1									
Siemens ITE		BLH	2-3									
Siemens ITE		BQ	1									
Siemens ITE		BQ	2-3									
Siemens ITE		BQCH	1-3									
Siemens ITE		BQD	3									
Siemens ITE		BQD	1-3									
Siemens ITE		BQD6	1-3									
Siemens ITE		BQH	1									
Siemens ITE		BQH	2-3									
Siemens ITE		CED6	2-3									
Siemens ITE		CFD6	2-3									
Siemens ITE		CFD6-ETI	2-3									
Siemens ITE		CJ3										
Siemens ITE		CJD6	2-3									
Siemens ITE		CJD6-ETI	2-3									
Siemens ITE		CLF	2									
Siemens ITE		CMD6	3									
Siemens ITE		CMD6-ETI	3									
Siemens ITE		CND6	3									
Siemens ITE		CPD6	3									
Siemens ITE		CQD	1-3									
Siemens ITE		E2										
Siemens ITE		E4	1									

Lockout/Tagout



TOOLS & SUPPLIES

Lockout/Tagout

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD 00) 44-768	Clamp On (universal) 44-764
Siemens ITE		ED2	1-3									
Siemens ITE		ED4	1-3									
Siemens ITE		ED6	1-3									
Siemens ITE		ED6-ETI	3									
Siemens ITE		EE3										
Siemens ITE		EH3										
Siemens ITE		EQP	4									
Siemens ITE		EQT QF										
Siemens ITE	F-Frame	ET										
Siemens ITE		FD6A	2-3									
Siemens ITE		FJ2-B	2-3									
Siemens ITE		FJ3	2									
Siemens ITE		FJ6	2									
Siemens ITE		FXD6A	2-3									
Siemens ITE		FXD6-ETI	2-3									
Siemens ITE		GF	1									
Siemens ITE		HBL	1									
Siemens ITE		HBL	2-3									
Siemens ITE		HBQ	1									
Siemens ITE		HBQ	2-3									
Siemens ITE		HE4										
Siemens ITE		HED4	1-3									
Siemens ITE		HED6	2-3									
Siemens ITE		HFD6	2-3									
Siemens ITE		HFXD6	2-3									
Siemens ITE		HHED6	2-3									
Siemens ITE		HHFD6	2-3									
Siemens ITE		HHJD6	2-3									
Siemens ITE		HHJXD6	2-3									
Siemens ITE		HJD6	2-3									
Siemens ITE		HJD6-A	2-3									
Siemens ITE		HJXD6	2-3									
Siemens ITE		HJXD6-A	2-3									
Siemens ITE		HMD6	2-3									
Siemens ITE		HMXD6	2-3									
Siemens ITE		HND6	2-3									
Siemens ITE		HNXD6	2-3									
Siemens ITE		HPD6	3									
Siemens ITE		HPXD6	3									
Siemens ITE		HQJ2-H	3									
Siemens ITE		HQP	1									
Siemens ITE		HQP	2-3									
Siemens ITE		HQPP	1									
Siemens ITE		HQPP	2-3									
Siemens ITE		HOPPH	2									
Siemens ITE		HRD6	3									
Siemens ITE		HRXD6	3									
Siemens ITE		JD6-A	2-3									
Siemens ITE		JJ3										
Siemens ITE		JL3	3									
Siemens ITE		JXD2-A	2-3									
Siemens ITE		JXD6-A	2-3									
Siemens ITE		LL3										
Siemens ITE		MD6	2-3									
Siemens ITE		MXD6	2-3									
Siemens ITE		MXD6-ETI	2-3									
Siemens ITE		ND6	2-3									
Siemens ITE		NXD6	2-3									
Siemens ITE		PD6	3									
Siemens ITE		PXD6	3									
Siemens ITE		QJ2	2-3									
Siemens ITE		QJ2-H	2-3									
Siemens ITE		QJH2	2-3									
Siemens ITE		QP	1									
Siemens ITE		QP	2-3									
Siemens ITE		QP1	1									

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD Q0) 44-768	Clamp On (universal) 44-764
Siemens ITE		QPH	1									
Siemens ITE		QPH	4									
Siemens ITE		QPH	2-3									
Siemens ITE		QPP	1									
Siemens ITE		QPP	2-3									
Siemens ITE		QPPH	1									
Siemens ITE		QPPH	2-3									
Siemens ITE		RD6	3									
Siemens ITE		RXD6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SCMD6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SCND6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SHMD6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SHND6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SMD6	3									
Siemens ITE	Solid State Trip Ckt. Bkr.	SND6	3									
Simplex		NX	3									
Square D		EDB	1-3									
Square D		EGB	1-3									
Square D		EH4	1-3									
Square D		EHB	1-3									
Square D		EHB	2-3									
Square D		EJB	1-3									
Square D		EZ	3									
Square D	100 Amp Frame	FA	1-3									
Square D	100 Amp Frame	FAL	1-3									
Square D	100 Amp Frame	FC	3									
Square D	100 Amp Frame	FCL	2-3									
Square D	FDA 34040	FDA										
Square D	100 Amp Frame	FH	1-3									
Square D	100 Amp Frame	FHL	1-3									
Square D	100 Amp Frame	FHL-DC	3									
Square D	100 Amp Frame	FI	3									
Square D	100 Amp Frame	FIL	3									
Square D	100 Amp Frame	FY	1									
Square D	Mag Gard	GJL	3									
Square D	250 Amp Frame	KA	2-3									
Square D		KAL	2-3									
Square D		KAP										
Square D	250 Amp Frame	KC	2-3									
Square D		KCL	2-3									
Square D	250 Amp Frame	KH	2-3									
Square D		KHL	3									
Square D	250 Amp Frame	KI	2-3									
Square D	250 Amp Frame	KIL	2-3									
Square D	400 Amp Frame	LA	2-3									
Square D		LAL	2-3									
Square D	400 Amp Frame	LH	2-3									
Square D		LHL	3									
Square D		LHP										
Square D		MA	3									
Square D	1000 Amp Frame	MA	2-3									
Square D		MAL	3									
Square D	1000 Amp Frame	MH	2-3									
Square D		MHL	2-3									
Square D		ML-1	3									
Square D		ML-3	3									
Square D	250 Amp Frame	Q1B	2-3									
Square D	250 Amp Frame	Q1L	2-3									
Square D	250 Amp Frame	Q2	2-3									
Square D	250 Amp Frame	Q2H	2-3									
Square D	250 Amp Frame	Q2L	2-3									



TOOLS & SUPPLIES

Lockout/Tagout

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764
Square D	250 Amp Frame	Q2MT	2-3									
Square D	400 Amp Frame	Q4	2-3									
Square D	400 Amp Frame	Q4L	2-3									
Square D	QO	QO	1									
Square D	QO	QO	2-3									
Square D	QO	QOB	1									
Square D	QO	QOB	2-3									
Square D	QO	QOB-H	2									
Square D	QO	QOB-VH	1									
Square D	QO	QOB-VH	2-3									
Square D	QO	QO-H	2									
Square D	Main Circuit Breaker QO	QOM1-VH	2									
Square D	Main Circuit Breaker QO	QOM2-VH	2									
Square D	QO	QO-SWN	2-3									
Square D	DIN Rail Mnt QO	QOU	1									
Square D	DIN Rail Mnt QO	QOU	2-3									
Square D	DIN Rail Mnt QO	QOU w/tie	2-3									
Square D	QO	QO-VH	1									
Square D	QO	QO-VH	2-3									
Square D	DIN Rail Mount	QYU	1									
Square D	2500 Amp Frame	RG	2-4									
Square D	2500 Amp Frame	RJ	2-4									
Square D	2500 Amp Frame	RL	2-4									
Square D		Y1										
Sylvania GTE		QC	2									
Sylvania GTE		Type C	2									
T&B		F Frame	1-3									
Westinghouse		BA	1									
Westinghouse		BA	2-3									
Westinghouse		BA	2-3									
Westinghouse		BA	1									
Westinghouse		BAB	1									
Westinghouse		BR	1									
Westinghouse		BR	2-3									
Westinghouse		BRH	2-3									
Westinghouse		CA										
Westinghouse		DA										
Westinghouse		DK										
Westinghouse		EB	1-3									
Westinghouse		ED										
Westinghouse		EH	1-3									
Westinghouse		EHB	1-3									
Westinghouse		EHD	1-3									
Westinghouse		FA	3									
Westinghouse		FB	2-3									
Westinghouse		FD	1-4									
Westinghouse		FDB	2-4									
Westinghouse		FDC	2-4									
Westinghouse	For Fire Protect.	FP	3									
Westinghouse		GB	1-3									
Westinghouse		GBH	1-3									
Westinghouse		GHB	1-3									
Westinghouse		GR	3									
Westinghouse		HBAW	1									
Westinghouse		HBAX	1									
Westinghouse		HCA	3									
Westinghouse		HFB	1-3									
Westinghouse		HFD	1-4									
Westinghouse		HKD	3									
Westinghouse		HLA										
Westinghouse		HLB										
Westinghouse		HMC										
Westinghouse		HMCP										
Westinghouse		HNC										
Westinghouse		HQNP	3									

IDEAL												
Standard Breaker Lockouts											EZ Panel Loc™	
Mfg.	Breaker Classification	Breaker Type	# of Poles	1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/ tie bar 44-783	Snap On (SQD Q0) 44-768	Clamp On (universal) 44-764
Westinghouse		HQP	1									
Westinghouse		JA										
Westinghouse		JD	2-4									
Westinghouse		KA	3									
Westinghouse		KB										
Westinghouse		LA	3									
Westinghouse		LB										
Westinghouse		LBB	3									
Westinghouse		LH										
Westinghouse		MA	2-3									
Westinghouse		MC	2-3									
Westinghouse		MCC	2-3									
Westinghouse		MCPO	3									
Westinghouse		NB										
Westinghouse		P	3									
Westinghouse		QBHW	1									
Westinghouse		QC	1									
Westinghouse	Quicklag C	QC	3									
Westinghouse		QCHQ	1									
Westinghouse		QHCW	1									
Westinghouse		QHCX	1									
Westinghouse		QHPW	1									
Westinghouse		QPHW	1									
Westinghouse		Quicklag P										
Westinghouse		RE										
Westinghouse		RH	3									
Westinghouse		WPHX	1									
Zinsco		HQB	3									
Zinsco		QB	1									
Zinsco		QCB	2									
Zinsco		Type Q	1									
Zinsco		Type T	1									



Commutator Maintenance

How to Select Resurfacer Grade

Small Motor and Pocket Resurfacers

Grade code letters designate the following grade combinations:

- A** Medium/Finish
- B** Coarse/Finish
- D** Finish/Polish
- H** Medium/Polish

All Other Resurfacers

Resurfacers for commutators and copper-alloy slip rings are made in five grades:

- 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
- P** 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 Grade

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



Description	Size (In.)	Grades	Cat. No.
Small Motor-Type Resurfacer	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



Description	Size (In.)	Grades	Cat. No.
Tool-Type Resurfacer	1 x 1-1/2 x 6-1/2	C, M, F	80-454*
Tool-Type Resurfacer	1 x 2 x 8	C, M, F	80-461*
Tool-Type Resurfacer	2 x 2 x 8	C, M, F	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



Description	Size (In.)	Grades	Cat. No.
Pencil-Type Resurfacer	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



Description	Size (In.)	Grades	Cat. No.
Tramway-Handle Resurfacer	2 x 1-1/2 x 2	M, F	80-255*
Tramway-Handle Resurfacer	2 x 2 x 2	C, M, F	80-265*

*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



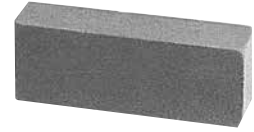
Description	Cat. No.
Commutator Smoothie® Resurfacing Tool	80-033

Please allow 2-3 weeks for delivery.



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 grease—imparts super-finished surface
- Non-conductive and non-loading



Description	Size (In.)	Cat. No.
Powr-Polish™ Flexible Abrasive	3/8 x 1/2 x 5	82-001
	3/8 x 3/4 x 5	82-002
	5/8 x 1 x 5	82-003
	1 x 2 x 5	82-004
	1 x 4 x 5	82-005
	1/8 x 1 x 5	82-006

Please allow 2-3 weeks for delivery.

Brush Seater & 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

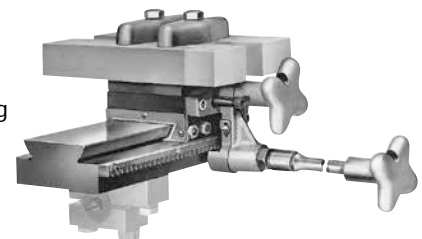


Description	Size (In.)	Grades	Cat. No.
Brush Seater & Commutator Cleaner	1/4 x 1/4 x 4-3/4	M, H	23-001*
	1/2 x 1/4 x 4-3/4	M, H	23-002*
	3/8 x 3/8 x 4-3/4	M	23-003*
	1/2 x 3/8 x 4-3/4	M, H	23-004*
	1/2 x 1/2 x 4-3/4	M	23-005*
	5/8 x 1/2 x 4-3/4	M	23-006*
	3/4 x 1/2 x 4-3/4	S, M, H	23-007*
	1-1/8 x 5/8 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	—	23-035S
	2 x 1 x 4-3/4	—	23-036S
	3 x 2 x 6	—	23-041S
	3 x 2 x 8	—	23-042S

*Add grade letter suffix to Cat. No. 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

Tool-type resurfacers and brush arm supports sold separately.

PRECISION WIRE PROCESSING

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

Stripmaster® & Stripmaster® Lite Wire Strippers

Blades.....	C-5
Accessories.....	C-6
Replacement Parts.....	C-6

Custom Stripmaster® Wire Strippers

Blades.....	C-7
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Custom Stripmaster® Lite Wire Strippers

Blades.....	C-8
Replacement Parts.....	C-9

Pneumatic Wire Strippers

Accessories.....	C-11
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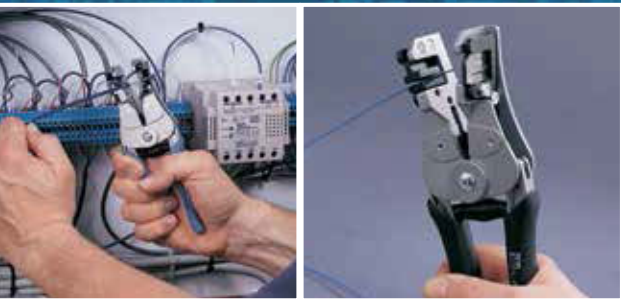




PRECISION WIRE PROCESSING

Mil-Aero

Every aspect of the aerospace industry demands precision and accuracy. That includes wire processing - our area of expertise at IDEAL. Working with both wire manufacturers and aerospace engineers, we develop unique blades with tight tolerances that strip wire accurately and dependably.

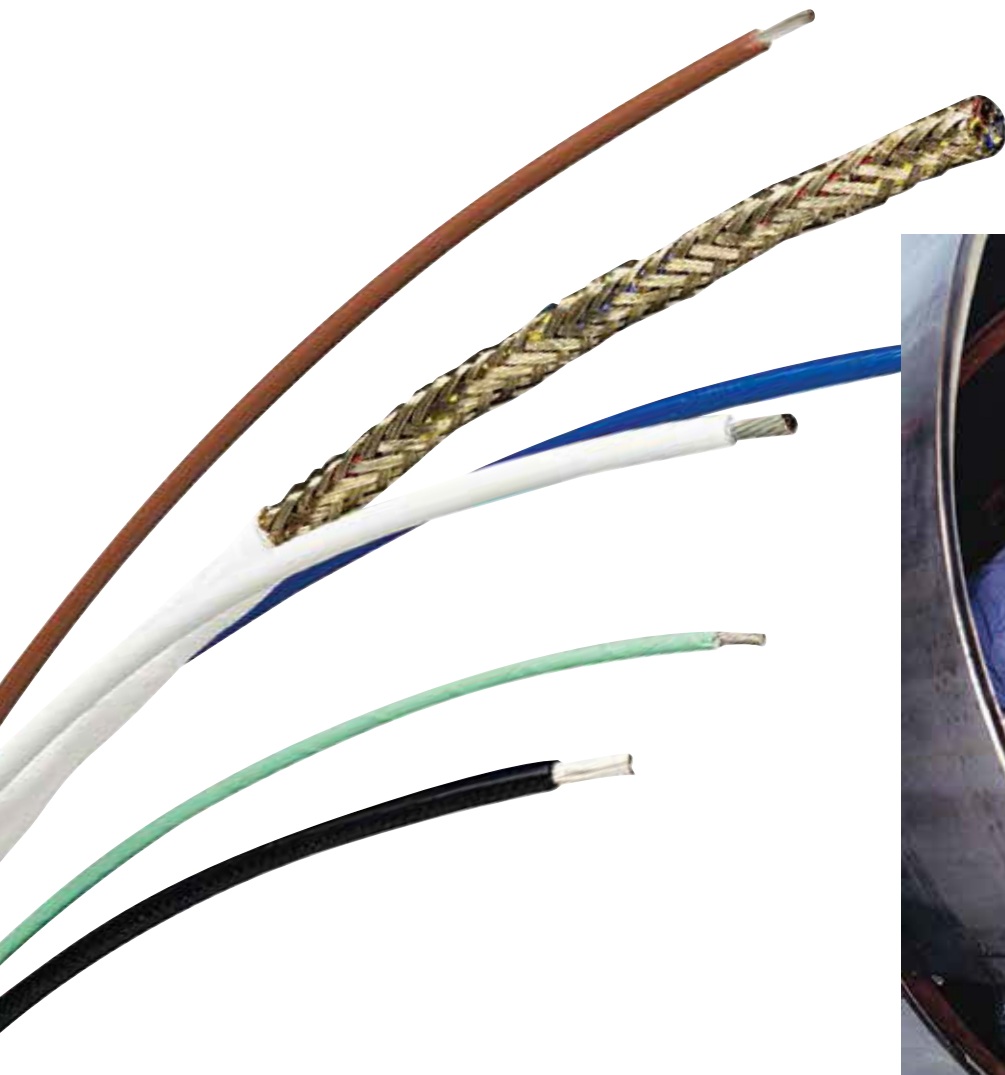


Wire Stripping Basics

There are two basic levels of wire stripping—precision and non-precision. The first type, precision wire stripping, is employed where extreme reliability and critical tolerances must be achieved. Aircraft, computers, aerospace, missiles, radar guidance systems, and communications systems are examples of applications where precision wire stripping is required. In many cases, the military standard is called for and meeting that standard is rigidly enforced and calls for the highest quality precision wire stripping.

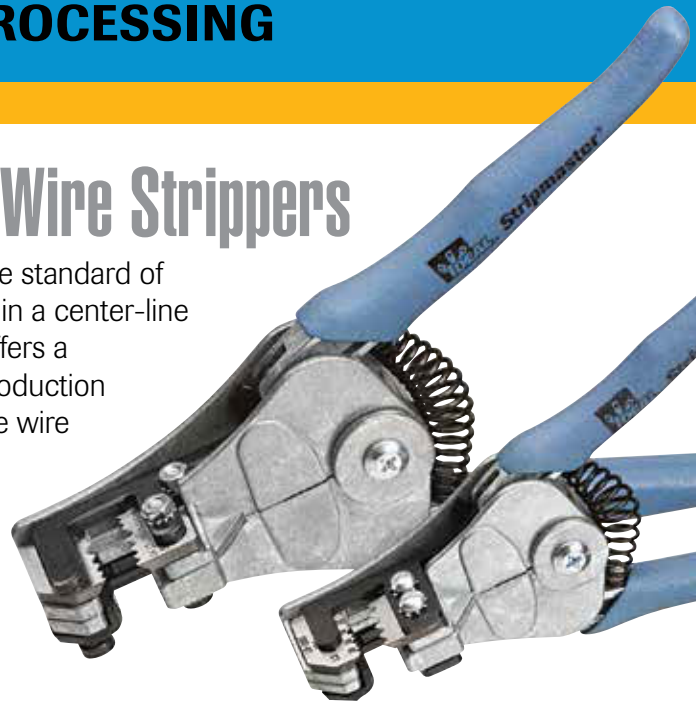
The second, non-precision stripping, is used in the manufacturing of lighting fixtures, electrical appliances, automotive harnesses, etc. This requires wire strips that assure product reliability and are obtained at a relatively low cost.

For each type of wire stripping and production requirement, the best tool and/or method to get the job done right must be determined, and IDEAL Electrical is there to assist with free wire analysis.



Stripmaster® & Stripmaster® Lite Wire Strippers

The versatile Stripmaster®/Stripmaster® Lite Wire Strippers are the standard of the industry. They incorporate a gripper that firmly holds the wire in a center-line position with the stripping hole. The lever action of the stripper offers a mechanical advantage that makes stripping easier. This aids in production applications and reduces operator fatigue. One squeeze strips the wire clean, up to a full 7/8 in. (22mm). The jaws are automatically held open to allow removal of the wire without damaging its end. This stripper virtually eliminates all nicking, cutting or fraying on non-precision wire.



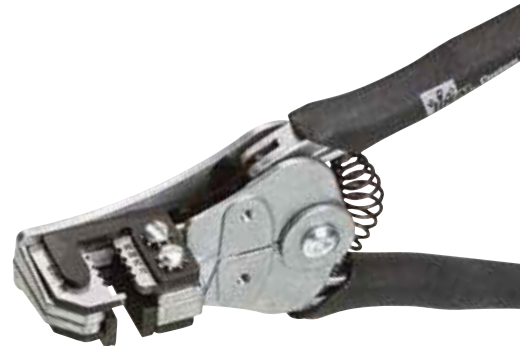
Custom Stripmaster® Wire Strippers

The Custom Stripmaster® Wire Stripper has set the industry standard in hand-held, precision wire stripping. It provides fast, accurate wire stripping with its one-step, squeeze-action stripping and unique precision blade design. This light-weight wire stripper, made from sturdy die-cast zinc, is designed for maximum mobility and high productivity in all types of non precision and precision stripping applications. The Custom Stripmaster® Wire Stripper offers extra leverage with its spring-action mechanical design for reduced operator effort. It can be customized with your choice of gripper pads and blade sets to match your wire stripping requirements. The comfort grip handles are color-coded to identify the best tool for the application. Red handles are used for larger wire (10–14 AWG) and black handles are used for smaller wire (16–30 AWG). The blades and grippers installed in the tool are specific to the application. Optional short-stop latch and transparent wire stop increases tool versatility and insures consistent strip lengths.



Custom Stripmaster® Lite Wire Strippers

The Custom Stripmaster® Lite Wire Stripper marks the beginning of a new era of light-weight, precision wire strippers designed specifically for improved operator comfort. It utilizes the same type of precision die-blade construction and features an optional short-stop latch and transparent wire stop. Built of sturdy die-cast zinc, this compact stripper weighs 50% less than its full-sized counterparts, and will impress you with both its ease of operation and durable performance.



Stripmaster® & Stripmaster® Lite Wire Strippers

- One-step stripping enhances productivity
- Precision-ground, knife-type blades provide clean, accurate stripping
- Sturdy die-cast zinc frame provides long-term durability
- Stripmaster® Lite designed for smaller hands – 3/4 the size of the standard Stripmaster®
- 90-day warranty



Stripmaster® Wire Strippers and Knife-Type Blades

Specifications — Stripping Hole Diameter in Inches (mm)												Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.	Tool w/Blades Cat. No.	
Wire Size AWG															
6	8	10	12	14	16	18	20	22	24	26	28	30			
	0.159 (4.0)	.141 (3.6)	.106 (2.7)										L-4419	L-5620	45-090 or 45-290*
		.144 (3.6)	.105 (2.7)	.085 (2.2)	.073 (1.8)	.073 (1.8)							L-4420	L-5620	45-091
		.144 (3.6)	.113 (2.9)	.090 (2.3)	.072 (1.8)	.061 (1.5)	.048 (1.2)	.048 (1.2)					L-4421	L-5620	45-092 or 45-292*
				.090 (2.3)	.072 (1.8)	.061 (1.5)	.039 (1.0)	.039 (1.0)					L-4422	L-5620	45-093
.230 (2.3)	.198 (5.0)	<i>This tool has a custom steel frame & custom step grippers.</i>										L-4453	L-4453	45-096	
					.072 (1.8)	.061 (1.5)	.048 (1.2)	.039 (1.0)	.032 (0.8)	.026 (0.7)			L-4994	L-5620	45-097
							.048 (1.2)	.039 (1.0)	.032 (0.8)	.026 (0.7)	.021 (0.5)	.016 (0.4)	L-5361	L-5620	45-098
	.198 (5.0)	.167 (4.2)			.062 (1.6)	.055 (1.4)							L-8763	L-5620	45-099

* Blister Card Tolerances ±.001"

Stripmaster® Lite Wire Strippers and Knife-Type Blades

Specifications — Stripping Hole Diameter Inches (mm)										Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.	Tool w/Blades Cat. No.
Wire Size AWG												
12	14	16	18	20	22	24	26	28	30			
		.072 (1.8)	.061 (1.5)	.048 (1.2)	.039 (1.0)					LB-1001	LB-1421	45-671
						.032 (0.8)	.026 (0.7)	.021 (0.5)	.016 (0.4)	LB-1002	LB-1421	45-672
.113 (2.9)	.090 (2.3)	.072 (1.8)	.061 (1.5)	All stranded wire						LB-1003	LB-1421	45-673
.096 (2.4)	.085 (2.2)	.073 (1.9)	.061 (1.5)	12 & 14 Solid Wire, 16 & 18 Stranded Wire						LB-1004	LB-1421	45-674

Tolerances ±.001"

Stripmaster® Wire Strippers and Knife-Type Blades for Metric Wire

Specifications — Stripping Hole Diameter (mm)														Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.	Tool w/Blades Cat. No.
Wire Size mm ²																
0.05	0.1	0.15	0.22	0.34	0.5	0.75	1	1.5	2.5	4	6	8	10			
												4.3	5.0	L-4419M	LA-2358	45-090-341
						1.3	1.6	1.9	2.4	3	3.6			L-4421M	LA-2358	45-092-341 or 45-292-341*
0.6	0.7	0.8	0.9	1.0	1.1									L-5361M	LA-2358	45-098-341

*Blister Card Tolerances ±.025mm

STRIPMASTER® Wire Strippers

Stripmaster® Lite Wire Strippers

Stripmaster® Lite Wire Strippers and Knife-Type Blades for Metric Wire

Specifications — Stripping Hole Diameter (mm)									Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.	Tool w/Blade Cat. No.
Wire Size mm ²											
0.05	0.1	0.15	0.22	0.34	0.5	0.75	1	1.5			
				1.0	1.1	1.3	1.6	1.9	LB-1001M	H-2909	45-671-341
0.6	0.7	0.8	0.9						LB-1002M	H-2909	45-672-341

Coax Stripmaster® Wire Strippers & Blades



Description	Repl. Blade Cat. No.	Tool w/Blade Cat. No.
Coax Stripmaster® for RG-6	LB-740	45-262
Coax Stripmaster® for RG-58	LB-742	45-264
Coax Stripmaster® for RG-59	LB-743	45-265
Coax Stripmaster® for RG-6 QuadShield	LA-3953	45-282

Coaxial Cables: two-step strip for termination, jacket and dielectric.

Stripmaster® Wire Strippers with Rectangular Holes



Description	Replacement Blades (Pair) Cat. No.	Tool w/Blade Cat. No.
For Flat Telephone Cable (.060 in. or 1.52mm)	LB-1155	N/A
For European Flat Lamp Cord	L-8762	45-089
For SP-SPT Lamp Cord	L-4452	45-095*

*Also strips 2- and 3-conductor low-voltage wire used in E.E. and Touchplate remote control wiring system.

Optional Accessories

- Wire Stop provides uniform stripping length, range = 3/32" to 3/4"
- Short stop latches protect wire strands by limiting stripping stroke to 5/32 in. and retain slug until wire is ready for terminating.



Description	Cat. No.
Transparent Adjustable Wire Stop (for Stripmaster® Wire Strippers)	L-5270
Transparent Adjustable Wire Stop (for Stripmaster® Lite Wire Strippers)	LB-1195
Transparent Adjustable Wire Stop (for Metric Stripmaster® Wire Strippers)	45-2019
Short Stop Latch for Custom & Customer Steel Stripmaster® Wire Strippers	L-5269
Short Stop Latch for Custom Stripmaster® Lite Wire Strippers	LB-1194

Replacement Parts

Description	Cat. No.
Replacement Frame for Stripmaster® Wire Strippers	L-5620
Replacement Frame for Stripmaster® Lite Wire Strippers	LB-1421
Replacement Moveable Gripper for Stripmaster® Wire Strippers	L-1953



Custom Stripmaster® Wire Strippers

- Strips 30 - 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
- Engineering service and made-to-order blades available. Contact factory for complete product and blade number listing.
- 90-day Warranty



Die-Type Blades

Specifications – Cutting Hole Diameter Counterbore Diameter in Inches												Blade Only Cat. No.	Stripper Cat. No.			
Wire Size AWG																
10	12	14	16	18	20	22	24	26	28	30						
For MIL16878 Type E (600V)																
.119/.136	.096/.113	.076/.0935											L-5559	45-176		
			.061/.081	.052/.070	.042/.0595	.034/.052	.028/.043	.023/0.39					L-5560	45-177		
								.023/.039	.019/.035	.016/.032			L-5561	45-178		
For MIL16878 Type EE (1000V)																
.119/.144	.096/.125	.076/.104											L-5562	45-173		
			.061/.089	.052/.0735	.042/.067	.034/.0595	.028/.055	.023/.0465					L-5563	45-174		
								.023/.0465	.019/.043	.016/.042			L-5564	45-175		
For Other Misc. Insulations																
.116/.154	.0937/.136	.076/.113											L-5210	45-170		
			.062/.096	.052/.086	.042/.073	.035/.0635	.0292/.0595	.022/.052					L-5211	45-171		
								.024/.043	.020/.040	.016/.037			L-5436	45-172		
Other Thin Insulations																
										Three identical holes	.012/.020		L-7625	45-179		
										Solid Wires	.024/.033	.018/.025	.014/.023	.012/.019	L-9300	45-169

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.

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

Custom Stripmaster® Lite Wire Strippers

- Custom Stripmaster® Lite is 3/4's the size of Custom Stripmaster® Wire Stripper and strips 16 - 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

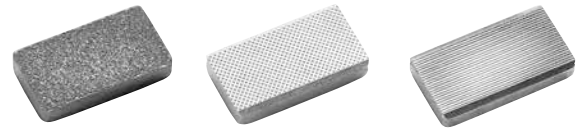
Specifications – Cutting Hole Diameter in Inches								Blade Only Cat. No.	Stripper Cat. No.
16	18	20	22	24	26	28	30		
For MIL16878 Type E (600V)									
.061/.081	.052/.070	.042/.0595	.034/.052					LB-918	45-638
		.042/.0595	.034/.052	.028/.043	.023/.039			LB-919	45-639
				.028/.043	.023/.039	.019/.035	.016/.032	LB-920	45-640
For MIL16878 Type EE (1000V)									
.061/.089	.052/.0785	.042/.067	.034/.0595					LB-915	45-635
		.042/.067	.034/.0595	.028/.055	.023/.0465			LB-916	45-636
				.028/.055	.023/.0465	.019/.043	.016/.042	LB-917	45-637
For Other Misc. Insulations									
.062/.096	.052/.086	.042/.073	.035/.0635					LB-912	45-632
		.042/.073	.035/.0635	.0292/.0595	.022/.052			LB-913	45-633
				.0292/.0595	.024/.043	.020/.040	.016/.037	LB-914	45-634
Other Thin Insulations									
							.012/.020	LB-921	45-641
				.024/.033	.018/.025	.014/.023	.012/.019	LB-911	45-631

Tolerances: Cutter Dia.: ± .001; Counter-bore Dia.: ± .002.

Custom Steel Stripmaster® Wire Strippers & Special Flat-Blades for Ribbon and Multi-Conductor Cable

Description	Blade Gap 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 (.50mm 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 (.80mm 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

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.)

* Gripper Set includes one movable gripper, one stationary gripper.
 ** Grit pads are standard for most Custom Stripmaster® and Custom Stripmaster® Lite products.
 ‡ These are for use on hard-to-grip surfaces.
 Gripper pad selection depends on insulation type and user preference.
 Note: For 10-14 AWG, use .129 in. stationary gripper. For 16-30 AWG, use .156 in. gripper.

Replacement Frame Assemblies with Grit Grippers

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.

Pneumatic Wire Strippers

- Hand-held pneumatic powered wire strippers for various single wire conductors
- Interchangeable blade offers versatility using either the Custom Stripmaster® Die-Type blade series for Mil-Spec wire stripping applications or the standard Stripmaster® Knife-Type blade series for general purpose wire stripping
- Rotating stripping head for ease of left-hand or right-hand operation
- Adjustable Speed Control allows the operator to regulate the speed of the stripping operation
- In-line stripping reduces potential blade contact with conductors

Technical Information

		45-2530	45-600	45-650
Strip Lengths	Minimum:	1/8 in.		
	Maximum:	1/2 in.		
Dimensions	Length:	6-5/8 in.	7-7/8 in.	8-7/8 in.
	Width:	2 in. dia.	1-1/2 in. dia.	1-7/8 in. dia.
	Height:	2-5/8 in.	2-1/2 in.	2-5/8 in.
	Weight:	1.75 lb.	1.65 lb.	2.32 lb.
Air Requirements (5CFM/Cycle)		.002	.002	.004
PSI Requirements		80-120 PSI	80-120 PSI	95-120 PSI
Air Hose Length		9 ft.		
Warranty		1-Year Limited		

Rotating Stripping Head



Standard Pneumatic Wire Stripper

- Uses Custom Stripmaster® and standard Stripmaster® 16-30 AWG blades
- Blades sold separately
- Refer to specification charts for Stripmaster® and Custom Stripmaster® for blade selection
- For Mil-Spec blades not referenced in this catalog, refer to the Mil-Aero Wire Processing Catalog or take advantage of our free Applications Engineering service for wire evaluation



Description	Cat. No.
PWS Standard Pneumatic Wire Stripper	45-2530

Heavy-Duty Pneumatic Wire Stripper

- Uses Custom Stripmaster® and standard Stripmaster® 10-30 AWG blades
- Blades sold separately
- Refer to specification charts for Stripmaster® and Custom Stripmaster® for blade selection
- For Mil-Spec blades not referenced in this catalog, refer to the Mil-Aero Wire Processing Catalog or take advantage of our free Applications Engineering service for wire evaluation



Description	Cat. No.
PWS Heavy-Duty Pneumatic Wire Stripper	45-650

Lite Pneumatic Wire Stripper

- Uses Custom Stripmaster® Lite and standard Stripmaster® Lite 16-30 AWG blades
- Blades sold separately
- Refer to specification charts for Stripmaster® Lite and Custom Stripmaster® Lite for blade selection
- For Mil-Spec blades not referenced in this catalog, refer to the Mil-Aero Wire Processing Catalog or take advantage of our free Applications Engineering service for wire evaluation



Description	Cat. No.
PWS Lite Pneumatic Wire Stripper	45-600

Pneumatic Wire Stripper Accessories

Description	Cat. No.
Wire Stop (45-2530 & 45-650)	L-5270
Wire Stop (45-600)	LB-1195
Air Regulator (45-2530, 45-650 & 45-600)	45-906

FREE Application Engineering Service

Whatever your particular wire or cable preparation challenge, we're ready to assist you with practical solutions. Simply send us at least five feet of your wire or cable and complete the questionnaire below. Copy this form and mail to:

IDEAL INDUSTRIES, INC.
1375 Park Avenue, Sycamore, IL 60178
Attn: Wire Stripping Applications Analysis

We'll quickly recommend a practical stripping or cutting solution designed to meet your needs. Remember, this is a free service that we're eager to provide whenever you need it.

Wire Stripping Recommendations

Completion of this information is a request for recommended tools or equipment only and does not place the individual or the company inquiring under any obligation to purchase. This is a free service of IDEAL INDUSTRIES, INC., Sycamore, Illinois.

Please enclose at least **five feet of your wire or cable** and answer the following questions to expedite a reply for your particular application.

1. Method Preference:

A. Hand Type

B. Production Strippers

1. 45-930 STP Stripping System

2. 45-950 Stripmaster® Model 950 Wire Stripper

2. Stripping Tolerance:

A. Precision

B. Non-Precision

3. Present Method: _____

4. Type of Insulation: _____

Customer Information

Please enclose business card or complete the following:

Name _____

Title _____

Company _____

Street _____

City _____ State _____ Zip _____

Phone _____ Fax _____

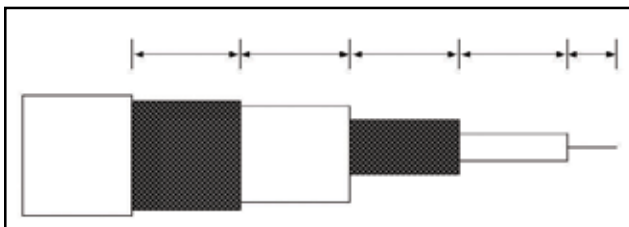
E-mail _____

5. Wire Gauge: _____

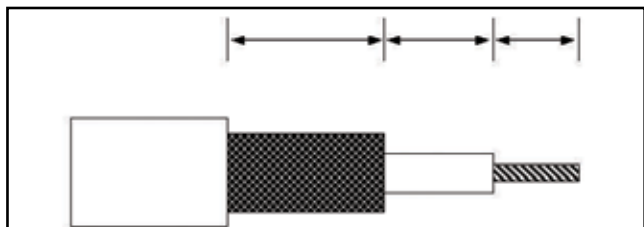
6. MIL-Spec: _____

7. Number of Strips per Day: _____

Triaxial Cable



Coax Cable



5. Remarks: _____

Circuit Tracers..... D-4

Clamp Meters..... D-7

Branch Circuit Analysis and Testing

Circuit Analyzer..... D-11

Circuit Breaker Finder..... D-11

Multimeters..... D-12

Voltage Testers..... D-13

Receptacle Testers..... D-14

Non-Contact Voltage Testers..... D-14

Specialty Testers

Ground Resistance Meters..... D-15

Insulation Testers..... D-15

Light Meter..... D-16

Phase & Rotation Testers..... D-16

Accessories

Adapters..... D-17

Thermocouples..... D-17





TEST & MEASUREMENT

IDEAL has been in the Electrical Test and Measurement Business for over 50 years. Throughout that time we have remain dedicated to providing the professional electrician with the tools and knowledge required to safely and efficiently verify and analyze electrical systems and equipment. So, whether you are; conducting routine measurements, testing installed devices or the integrity of a branch circuit, locating breakers, tracing wires, or measuring ground electrode, IDEAL has the tools to help you get the job done safely and efficiently.



NEW
Refined Performance

SureTrace™ Circuit Tracers

IDEAL, a leader in Circuit Tracing technology, has released the latest generation of circuit tracers with refinements in performance, ease-of-use and safety.

Performance

- Four defined ranges let you quickly select the proper sensitivity for your job
- Easy-to-replace AA batteries provide the tracer with 4 times the tracing power

Ease-of-Use

- Super-bright OLED display (61-957 and 61-959) indicates a numeric value between 0 and 99, providing a quick and easy way to determine signal strength
- A variable pitch/tone audible indication assists in verifying signal strength
- Peak detection provides instantaneous signal strength feedback
- SureTrace™ Circuit Tracers feature the only rotating display in the industry. Regardless of the position the tracer is in, the display will orient itself in an easy-to-read vertical position.

Safety

- Designed for durability and safety
- CAT III 600V
- High energy fuse

Features

- Can be used on circuits 0-600V AC/DC
- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires behind walls

⚡ CertainCircuit™

After the correct breaker has been identified and tripped, the transmitter senses the loss of power and sends a different signal back to the receiver at the panel to give the user confidence that the right circuit has been de-energized.



Energized



De-energized



Exclusive Rotating Display



Pinpoints Opens & Shorts



Traces behind walls



Works on de-energized circuits



Inductive Clamp



SureTrace™ Circuit Tracers

- Receiver display rotates automatically for easy viewing (61-959, 61-957 models)
- Identifies breakers and fuses with CertainCircuit™ detection
- Pinpoints opens and shorts
- Traces wires
- “0-99” display of signal strength
- Audible indication intensifies in tone/pitch with signal strength
- Works on energized or de-energized circuits (0 - 600V AC/DC)
- Four sensitivity levels
- Peak reading bar graph
- 2-year warranty



Description	Cat. No.
Receiver with super-bright OLED Rotating Display (in 90° increments) – Kit includes Transmitter TR-955, Receiver RC-959, Lead Set TL-956, Inductive Clamp IC-958, Battery Pack BP-958 & Strap 61-565, Hard Carrying Case C-959, Batteries and Instruction Manual	61-959
Receiver with super-bright OLED Rotating Display (in 90° increments) – Kit includes Transmitter TR-955, Receiver RC-959, Lead Set TL-956, Hard Carrying Case C-957, Batteries and Instruction Manual	61-957
Receiver with Rotating LED Display (in 180° increments) – Kit includes Transmitter TR-955, Receiver RC-955, Lead Set TL-956, Hard Carrying Case C-955, Batteries and Instruction Manual	61-955

Kit Components	61-959	61-957	61-955
Transmitter	TR-955	TR-955	TR-955
Receiver	RC-959	RC-959	RC-955
Tracer Test Lead Set	TL-956	TL-956	TL-956
Inductive Clamp	IC-958		
Battery Pack & Strap (61-565)	BP-958		
Hard Carrying Case	C-959	C-957	C-955
Batteries	•	•	•
Instructions	•	•	•

RC-959 Receiver

- Super-bright OLED display
- Rotating display (in 90° increments)
- Displays 0-99 numeric signal strength
- Four sensitivity levels
- CertainCircuit™ detection
- Peak reading bar graph
- Audible indication (variable pitch/tone)
- Displays Battery life remaining
- Supplied with 3 AA batteries



Description	Cat. No.
Receiver	RC-959



TR-955 Transmitter

- Rated for use on circuits of up to 600V AC/DC
- Tests de-energized circuits
- Can be used on GFCI protected circuits
- Indicates presence of AC/DC voltage
- Low battery indicator
- Supplied with 4 AA batteries



Description	Cat. No.
Transmitter	TR-955

Inductive Clamp & Battery Pack

- Induces a signal onto the circuit
- 1 in. jaw opening/6 ft. cord
- Work on circuits that are energized but carrying no more than 5 amps of current
- Powered solely by a separate battery pack (supplied with 8 C-cell batteries)
- Battery pack has magnetic strap for hanging in panels



Description	Cat. No.
Inductive Clamp & Battery Pack	IC-958

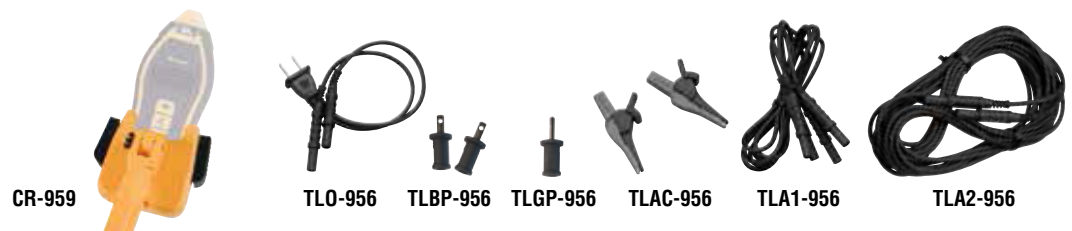
RC-955 Receiver

- Red LED display
- Rotating display (in 180° increments)
- Displays 0-99 numeric signal strength
- Four sensitivity levels
- CertainCircuit™ detection
- Peak reading bar graph
- Audible indication (variable pitch/tone)
- Displays battery life remaining
- Supplied with 3 AA batteries



Description	Cat. No.
Receiver	RC-955

Accessories



Replacement Parts	Cat. No.
Cradle for Receiver (threaded for use on standard extension pole)	CR-959
Fuse (for TR-955 Transmitter) - High-Energy, Fast-Acting, 1A/660V (not pictured)	F-956
Magnetic Hanging Strap (not pictured)	61-565
Tracer Test Lead Set (includes items 1-6 below)	TL-956
1. Outlet Plug Adapter for Transmitter	TLOP-956
2. Blade Prongs for Lead Adapters (set of 2)	TLBP-956
3. Ground Prong for Lead Adapters	TLGP-956
4. Alligator Clips for Lead Adapters (set of 2)	TLAC-956
5. 3 ft. Lead Adapters for Transmitter (set of 2)	TLA1-956
6. 25 ft. Lead Adapter for Transmitter	TLA2-956

TightSight® Clamp Meters

Problem: Have you ever had to measure the circuit current in a confined, dimly lit and hard to reach location?

Solution: IDEAL TightSight® Clamp Meter! This meter allows the user to safely and easily view current measurement with the exclusive second TightSight® display.



Safety

- Patented TightSight® display lets you easily take readings while keeping your head at a safe distance from the panel – no more need to twist the meter or risk pulling on an energized conductor
- Easy to read backlit display with large numbers and icons so you can always see the correct reading
- Selectable audible and visual alerts when potentially hazardous voltages are detected at the probe terminals
- Electronic overload protection on all ranges
- Test leads supplied are compliant to IEC61010-031 compliant

Productivity

- Read and record while clamped instead of holding the reading, unclamping, moving and recording
- Hook tip for easier wire separation and tapered jaws for reaching into tight spaces
- Help troubleshoot with min and max value readings over a period, i.e. nuisance tripping and power supply fluctuations
- True RMS provides accurate readings of non-sinusoidal load currents
- Broad current range from 0 to 1000 amps (61-770 series) covers multiple applications
- Large jaw diameter for cables up to 2" (51mm) in diameter (770 series only)

Value

- Includes carrying case and test leads with alligator clips
- Full AC/DC capabilities: the TightSight® is equally adaptable for both AC and DC current measurement requirements – such as solar, public transportation, and battery backup applications
- Calibration services available
- 2-year warranty



TightSight® 1000A Clamp Meters

- TightSight® second display
- Tapered jaws with hook tip
- True RMS current and voltage
- AC/DC Voltage
- Audible continuity
- High frequency rejection*
- Peak hold
- Max/min hold
- Data hold
- Selectable audible and visual alerts when potentially hazardous voltages are detected at the probe terminals
- Selectable auto power off
- Backlit display
- Low battery indicator

* Reads accurately on noisy electrical circuits.



Description	Cat. No.
1000A AC Clamp Meter	61-773
1000A AC/DC Clamp Meter	61-775

Includes: Carrying Case and Test Leads w/Alligator Clip.

TightSight® 660A Clamp Meters

- TightSight® bottom display
- Tapered jaws with hook tip
- True RMS current and voltage
- AC/DC Voltage
- Audible continuity
- High frequency rejection*
- Peak hold
- Max/min hold
- Data hold
- Selectable audible and visual alerts when potentially hazardous voltages are detected at the probe terminals
- Selectable auto power off
- Backlit display
- Low battery indicator

* Reads accurately on noisy electrical circuits.



Description	Cat. No.
600A AC Clamp Meter	61-763
660A AC/DC Clamp Meter	61-765

Includes: Carrying Case and Test Leads w/Alligator Clip.

Specifications	Range & Resolution				Accuracy
	61-773	61-775	61-763	61-765	
AC Current	0.0-999.9A		0.0-660.0A		2.0%
DC Current	—	0.0-999.9A	—	0.0-660.0A	2.0%
AC Voltage	0.0-750.0V				1.0%
DC Voltage	0.0-999.9V				1.0%
Resistance	0.0-999.9Ω				1.5%
Capacitance	0.0-999.9μF				5.0%
Continuity	0.0-999.9Ω				Audible @ <30Ω
Frequency (clamp head or test leads)	20.0-400.0Hz				0.5%
Jaw Size	2" (51mm)		1.42" (36mm)		—



Clamp-Pro™ Clamp Meters 600 Amp (740 Series)

- Measures up to 600A AC
- Non-contact voltage indicator (70V-600VAC)
- Continuity
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator



Description	Cat. No.
600A AC Clamp Meter w/TRMS	61-746
600A AC Clamp Meter	61-744

Includes: Carrying Case and Test Leads.

Specifications	Range & Resolution	Accuracy
AC Current	40.00/400.0/600A	1.7%
AC Voltage	400.0/600 V	1.2%
DC Voltage	400.0/600 V	0.5%
Resistance	400.0/4.000k/ 40.00k 400.0k/4.000M/40.00M Ω	1.0%

Jaw opening is 1.25" (32mm).



4-in-1 Test Tools (700 Series)

- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Vibration mode to verify AC voltage
- Clean voltage indicator
- Max hold
- Continuity
- Low battery indication
- Integral lead storage
- Audible hazardous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head



Description	Cat. No.
4-in-1 Test Tool w/TRMS, Backlight	61-704

Includes: Carrying Case and Silicone Test Leads.

Specifications	Range & Resolution	Accuracy
AC Voltage	2000m/200.0/750 V	1.2%
DC Voltage	2000m/200.0/1000 V	0.5%
AC Current	200.0 A	3.0%
Resistance	200.0/200.0k Ω	1.0%
Capacitance	200.0μ F	3.0%

Jaw opening is 1.3" (33mm).



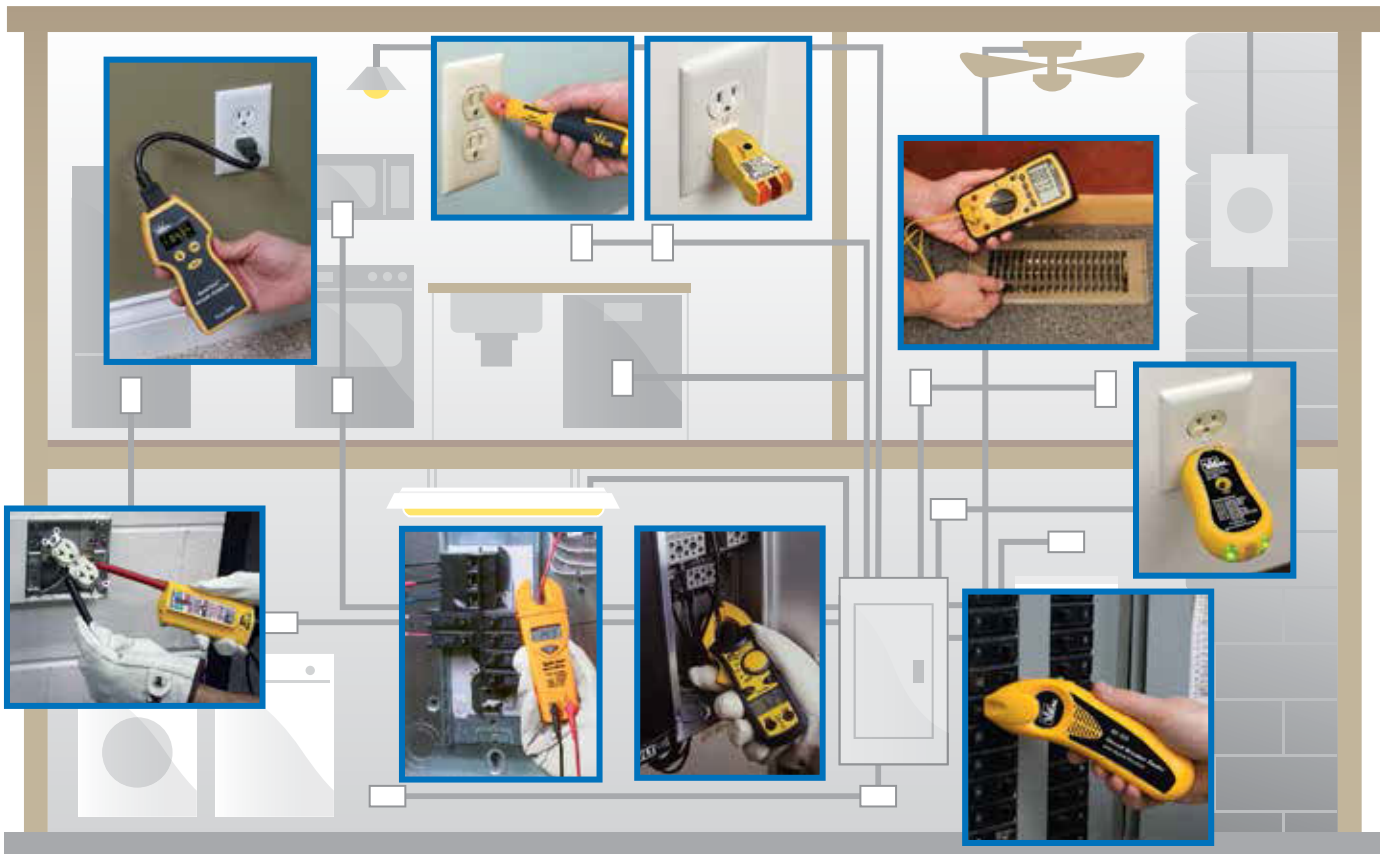
Clamp Meter Selection Guide

CLAMP METER SELECTION GUIDE	700	740 Series		760 Series		770 Series	
	61-704	61-744	61-746	61-763	61-765	61-773	61-775
MEASUREMENT FUNCTIONS							
AC Voltage	•	•	•	•	•	•	•
DC Voltage	•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•
DC Current					•		•
Resistance	•	•	•	•	•	•	•
Audible Continuity	•	•	•	•	•	•	•
Diode Test	•						
Capacitance	•			•	•	•	•
Frequency				•	•	•	•
FEATURES							
Display Type (Digital)	D	D	D	D	D	D	D
AC Current Capacity - Amps	200	600	600	660	660	1000	1000
DC Current Capacity - Amps					660		1000
True RMS	•		•	•	•	•	•
Auto Ranging	•						
Auto/Manual Ranging		•	•	•	•	•	•
Data Hold		•	•	•	•	•	•
Max Hold	•						
Peak Hold				•	•	•	•
Min/Max				•	•	•	•
DCA Zero					•		•
Auto Power Off	•	•	•	•	•	•	•
Non-Contact Voltage Indication	•	•	•				
Harmonics Indicator	•						
Vibration Mode	•						
Backlight	•			•	•	•	•
Low Battery Indication	•	•	•	•	•	•	•
High Voltage Warning	•			•	•	•	•
Overload Protection on all Ranges	•	•	•	•	•	•	•
Conductor Size – Inches (mm)	1.3" (33)	1.5" (38)	1.5" (38)	1.4" (36)	1.4" (36)	2.0" (51)	2.0" (51)
Warranty (years)	2	2	2	2	2	2	2
CERTIFICATIONS							
UL 61010 Listed	•	•	•	•	•	•	•
Category Safety Rating	III	III	III	IV	IV	IV	IV
CE	•	•	•	•	•	•	•

Branch Circuit Analysis and Testing

Proper wiring is crucial to ensure safety and performance of Branch circuits. From a safety perspective, shock hazards and fires are mainly due to poor installation or failure of protective devices, such as GFCIs. From a performance perspective, electrical equipment and high-tech devices are found everywhere in residential and commercial buildings. They require reliable power to operate and function properly to ensure their longevity.

IDEAL has a long history of providing the professional electrician with the tools and knowledge required to safely and efficiently verify and analyze Branch Circuits. So, whether you are; conducting routine measurements, testing installed devices or the integrity of a Branch Circuit, locating a breaker, or tracing wires, IDEAL has the tools for the job.



SureTest® Circuit Analyzer

- Measures voltage drop under load*
- Hot and neutral conductor impedances
- Estimates Load on Line (ELL) up to 15A
- Tests GFCIs and EPDs for proper operation
- Super-bright OLED display
- High accuracies
- True RMS
- Line voltage
- Peak voltage
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Tests without disturbing sensitive loads
- Verifies isolated grounds (with 61-176 adapter)
- 2-year warranty

*12A, 15A, 20A load tests



Description	Cat. No.
SureTest® Circuit Analyzer	61-164

Includes: Carrying Case and Test Leads.

Specifications	Range & Resolution	Accuracy
AC Voltage	85.0 - 265.0 VAC	1.0%
Frequency	45.0 - 65.0 Hz	1.0%
Impedance	0.00 - 3.00 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/Time	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%

Accessories	Cat. No.
Ground Continuity Adapter	61-175
Isolated Ground Adapter	61-176
Alligator Clip Adapter	61-183
1' Extension Cord	61-182

Circuit Breaker Finder

- Fully automatic operation
- Positively identifies circuit breakers and fuses without service interruption
- Self calibrating
- Visual and audible indicators
- 2-year warranty



Description	Cat. No.
Circuit Breaker Finder w/Digital Receiver & GFCI Circuit Tester	61-534

Specifications	
Operating Voltage	100 - 250 VAC
Operating Frequency	47 - 63 Hz



486 Commercial-Grade Multimeter

- Voltage
- Current
- Resistance
- Audible continuity
- Capacitance
- Frequency
- Temperature
- Data hold
- Min/max/relative modes
- Backlight
- True RMS
- Auto AC/DC voltage detect w/ low impedance (Auto - VLoZ)
- Analog bar graph
- Non-contact voltage detection
- Peak hold
- Low battery indication
- Auto power off
- Limited 2-year warranty



Description	Cat. No.
Digital Multimeter w/peak hold, temperature, includes thermocouple	61-486

Includes: Test Leads & Carrying Case.

Specifications	Range & resolution	Accuracy
AC Voltage	6.000/60.00/600.0/1000.0 V	0.80%
AC mV	600.0 mV	1.2%
DC Voltage	6.000/60.00/600.0/1000.0 V	0.08%
DC mV	60.00/600.0 mV	
AC Current	60.00m/600.0m/6.000/10.00A	1.2%
DC Current	60.00m/600.0m/6.000/10.00A	0.80%
Resistance	600.0/6.000k/60.00k/600.0k/ 6.000M/40.00M Ω	0.80%
Capacitance	1nF to 10mF	0.1%
Frequency	99.9 to 100.0k Hz	0.1%
Temperature	-40°F to 752°F (-40°C to 400°C)	1.0%

340 Series Test-Pro® Multimeters

- Voltage
- Current
- Resistance
- Audible continuity
- Capacitance
- Frequency
- Temperature
- Data hold
- Min/max/relative modes
- Backlight
- Low battery indication
- Auto power off
- Limited 2-year warranty



61-342

Description	Cat. No.
Test-Pro® Multimeter w/TRMS	61-342
Test-Pro® Multimeter	61-340

Includes: Test Leads and Thermocouple.

Specifications	Range & Resolution	Accuracy
AC Voltage	4.000/40.00/400.0/600 V	1.5%
DC Voltage	400.0m/4.000/40.00/400.0/600 V	0.5%
Current	400.0μ/4000μ/40.00m/400.0m/4.000/10.00A AC/DC	1.5%
Resistance	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	10.000/100.00/1.000k/10.00k/100.0k/1.000M/4.000M Hz	0.3%
Temperature	-4° F to 1382° F (-20° C to 750° C)	3.0%



Split-Jaw™ Smart Meter

- Measures
 - 0.9-200AAC
 - 1.3-750VAC
 - 2.1-1000VDC
 - 0.0-9999Ω
- Audible continuity
- Data hold
- Integral lead storage
- Replaceable test leads
- Auto power off
- Low battery indication
- Test leads IEC61010-031 compliant
- 2-year warranty



Description	Cat. No.
Split-Jaw™ Smart Meter	61-096

Includes: Test Leads.

Specifications	Range & Resolution	Accuracy
AC Voltage	1.3 - 750 V	1.5%
DC Voltage	1.8 - 1000 V 0.6 - 1000 V	1.0%
AC Current	0.6 - 200.0A	3.0%
Resistance	0 - 2000 Ω	1.0%

*Note: Jaw opening is 0.6 in. (16mm) - up to 1/0 copper cable.



Vol-Con® Elite Digital Voltage Tester

- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Visual and audible warning
- Audible continuity
- Non-contact voltage indication (40-600VAC)
- Low impedance to eliminate ghost voltages
- Low battery indicator
- Replaceable silicone test leads (IEC61010-031 compliant)
- Integral lead storage
- 2-year warranty



Description	Cat. No.
Vol-Con® Elite Digital Voltage Tester w/vibration mode	61-092

Includes: Silicone Test Leads.



Solenoid Voltage Testers

- Extremely rugged and reliable
- Vibrates when AC voltage is present
- Indicates AC/DC voltage level
- Replaceable leads with shielded probe tips (IEC61010-031 compliant)
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- 2-year warranty



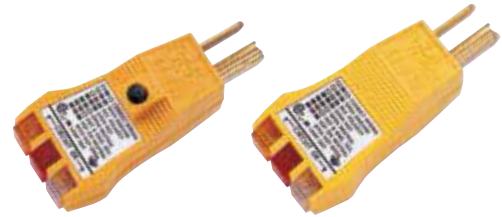
Description	Cat. No.
Vol-Con® Voltage/Continuity Tester, 5-600V AC/DC	61-076
Vol-Test® Voltage Tester, 100-600V AC/DC	61-065

Includes: Test Leads.



E-Z Check® Circuit Tester

- Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot in 3-wire, 120VAC circuits
- Simulates ground fault for testing GFCIs
- No-slip ergonomic design maximizes comfort
- Premium neon lamps prevent false readings
- Tough, impact-resistant case
- 2-year warranty



61-051

61-035

Description	Cat. No.
E-Z Check® Plus GFCI Circuit Tester	61-051
E-Z Check® Circuit Tester	61-035



Receptacle Tester

- Warns against faulty wiring in 3-wire receptacles
- For use on 120VAC circuits
- 1-year warranty



Description	Cat. No.
GFCI Receptacle Tester	61-501

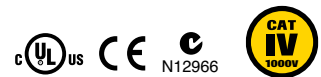


VoltAware™ Non-Contact Voltage Tester

- Indicates presence of voltage from 40-1000VAC
- Visual indication of voltage
- Selectable audible indication of voltage
- Sleek, compact design
- Auto shut-off to conserve battery life
- Green LED shows unit is active, flashing red indicates live voltage
- Low battery detector
- Easy battery replacement
- Batteries included (2 AAA)
- 2-year warranty

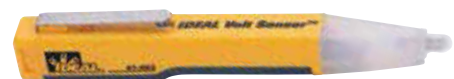


Description	Cat. No.
VoltAware™ Non-Contact Voltage Tester	61-025



VoltSensor™ Non-Contact Voltage Tester

- Tests for voltage from 40-600VAC
- Audible and visual indication
- Locates breaks along live insulated wires
- Tests for energized circuits
- Easy battery replacement
- Batteries included (Two - LR44/61-201)
- 1-year warranty



Description	Cat. No.
Volt-Sensor™ Non-Contact Voltage Tester	61-063



SPECIALTY TESTERS

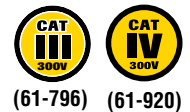
Ground Resistance Meters

- Auto ranging
- Auto power off
- Hard case included
- 2-year warranty



Description	Cat. No.
Ground Resistance Clamp Meter	61-920
3-Pole Ground Resistance Tester (includes TL-796 lead set kit)	61-796
Earth Resistance Lead Set Kit (not shown)	TL-796

Specifications	Range & Resolution	Accuracy	Range & Resolution	Accuracy
	61-920		61-796	
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%	—	—



(61-796) (61-920)

Insulation Tester

- Checks new installations for damaged insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty



Description	Cat. No.
Insulation Meter w/PI, DAR, Remote Probe	61-797
Insulation Tester - Includes Test Lead and Case	61-795

Specifications	Range & Resolution	
	61-797	61-795
Test Voltage	50/100/250/500/1000 VDC	250/500/1000 VDC
Voltage AC/DC	0.1-600.0 V	0.1-600.0 V
Continuity	—	0.01-20.0 Ω
Resistance	—	0-200.0Ω
Insulation Resistance	Up to 20G Ω	Up to 4000M Ω
Earth-Bond Resistance	0.01 Ω to 40.00k Ω	—



SPECIALTY TESTERS

Digital Light Meter

- Measures all visible light sources
- Measures in four ranges up to 20,000 Foot Candles or 200,000 Lux
- +/- 3% basic accuracy
- Data hold mode
- Max reading mode
- Auto zero adjustment
- Low battery indication
- Auto power off
- Remote sensor with 59 in. (1.5m) cable
- 2-year warranty



Description	Cat. No.
Digital Light Meter	61-686

Includes Carrying Case.



3-Phase/Motor Rotation Tester

- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- 2-year warranty



Description	Cat. No.
3-Phase/Motor Rotation Tester	61-521

Includes Carrying Case.



3-Phase Sequence Tester

- For use up to 600V
- Color-coded insulators over alligator clips
- Shock resistant housing
- Easy to read
- 2-year warranty



Description	Cat. No.
3-Phase Sequence Tester	61-520

Includes Carrying Case.

Accessories, Carrying Cases Replacement Parts

Ground Continuity Adapter

- Verifies cabinet or equipment chassis has been properly bonded to system ground



Description	Cat. No.
Ground Continuity Adapter for 61-164 Circuit Analyzer	61-175

Isolated Ground Adapter

- Verifies receptacle is isolated from system ground and bonded to other devices on the branch circuit



Description	Cat. No.
Ground Continuity Adapter	61-176

Extension Cord

Description
1' Extension Cord



Description	Cat. No.
1' Extension Cord	61-182

Alligator Clip Adapter

- Allows SureTest® Circuit Analyzer to analyze non-outlet based circuit for branch circuit safety and performance



Description	Cat. No.
Alligator Clip Adapter	61-183

Thermocouple

- Measures up to 1500° F (816° C)
- K-type thermocouple plugs into digital multimeter voltage jacks with 61-465 adapter



61-461



61-465

Description	Cat. No.
Beaded K-type Thermocouple	61-461
Thermocouple Adapter	61-465
Replacement Thermocouple for 61-486 Digital Light Meter	TC-486

Magnetic Strap

- Frees up hands to help work safely
- Fits 480/340 Series Multimeters



Description	Cat. No.
Magnetic Strap	61-565



Test Leads

Description	Category Rating	Cat. No.
Silicone Test Leads	CATIII 1000V CATIV 600V	TL-102
Fused Test Leads w/alligator clips, 10A/600V	CATIII 1000V	TLF-252
Premium Test Leads w/alligator clips	CATIII 1000V CATIV 600V	TL-770

Replacement Parts Selection Guide

			090	340		480	700	740		760		770		790	
			61-096	61-340	61-342	61-486	61-704	61-744	61-746	61-763	61-765	61-773	61-775	61-795	61-797
Selection Guide															
FUSES															
F-1	0.5A (250V)	6.35 x 38mm													
F-105	1A (600V)	10.3 x 35mm													
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		•	•										
F-497	440mA (1000V)	10 x 35mm				•									
F-498	11A (1000V)	10 x 38mm				•									
F-797	315mA (1000V)	5 x 32mm													•
LA-3893	2A (600V)	6.35 x 25.4mm													
LA-3898	250mA (500V)	6.35 x 32mm													
BATTERIES															
61-201	1.5V (LR44)														
—	1.5V (AA)														
—	1.5V (AAA)							•	•					•	•
—	9V		•	•	•	•	•			•	•	•	•		
TEST LEADS															
TL-34	Leads w/pin connectors														
TL-56	Test leads														
TL-95	Test leads		•												
TL-102	Silicone test leads					•									
TL-310	Test leads														
TL-770	Test leads w/large alligator clips			•	•	•		•	•	•	•	•	•		
TL-795	Test leads													•	
TL-797	Test leads														•

ACCESSORIES & REPLACEMENT PARTS

Carrying Cases



Description	Cat. No.
Small Nylon Carrying Case w/four pockets	61-445
Nylon Carrying Case - for use with all Vol-Con® and Vol-Test® Voltage Testers	C-90
Nylon Carrying Case - for use with Digital Multimeters	C-290

Selection Guide	VOLTAGE TESTERS					160	340	480	700	740	760	770				
	61-065	61-076	61-086	61-092	61-096	61-164	61-340	61-342	61-486	61-704	61-744	61-746	61-763	61-765	61-773	61-775
61-179 Nylon Carrying Case						•										
C-90 Nylon Carrying Case	•	•	•	•	•						•	•				
C-290 Nylon Carrying Case							•	•	•							
C-700 Nylon Carrying Case										•						
C-760 Nylon Carrying Case													•	•		
C-770 Nylon Carrying Case															•	•

Safety in the Field

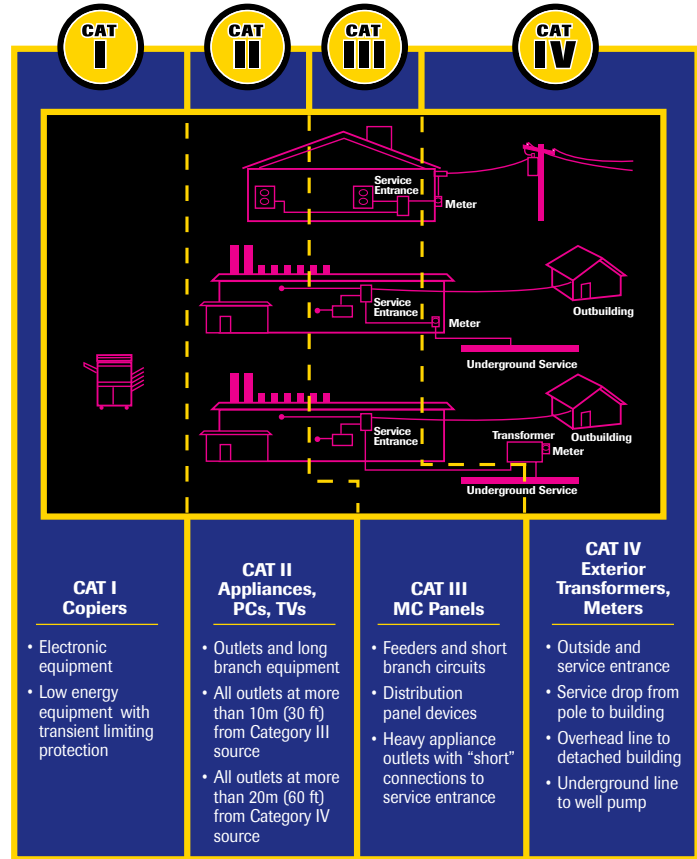
IEC (International Electrotechnical Commission) Category Ratings

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 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 – 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.



Testers

SignalTEK® II Transmission Testers.....	E-3
SecuriTEST® PRO CCTV/Security Tester	E-3
VDV II Cable Verifiers	E-4
TraceTone® Tone Generator & Amplifier Probe Tester	E-5
LinkMaster™ Tester.....	E-5

Compression Tools/Connectors

OmniSeal™ Pro XL Compression Tool.....	E-6
LinearX® Pro Compression Tool.....	E-6
Compression Connectors	E-7

Tools

Crimpmaster™ Crimp Tool.....	E-8
Punch Down Tools.....	E-10
Telephone Tools.....	E-10
Modular Plugs.....	E-12
Strippers	E-13
Cutters/Scissors	E-15
Splitters	E-16
Kits.....	E-17
Fiber Optic.....	E-20





DATAComm

Enhance existing technologies and provide a foundation for tomorrow

IDEAL DataComm provides installation and testing solutions for twisted pair, coax and fiber based applications. Designed for the professional, IDEAL tools, testers and connectivity products offer an integrated approach to cut, strip, terminate and test a wide variety of low-voltage applications. Combined with our technical expertise, product training and customer support, this integrated approach ensures that your total cost of ownership is minimized.



SignalTEK® II Ethernet Data Transmission Testers

- If you install or maintain data cabling, SignalTEK® CT & SignalTEK® II FO allow you to generate PDF test reports that prove installed links run at Gigabit Ethernet transmission rates.
- For installers, this means having a cost-effective way to demonstrate that the cabling was installed correctly and is capable of supporting Ethernet applications. By proving real world performance, SignalTEK® CT confirms a professional job - reducing the risk of call backs.
- SignalTEK® II FO tests cable as well as active Ethernet networks by transmitting simulated web, VoIP, IP video and IP CCTV data through the LAN, stress-testing both the network equipment and the cable. SignalTEK® II FO will also test fiber optic cable and connect to live fiber optic LANs with optional SFP (small form-factor pluggable) modules.
- SignalTEK® gives network installers and owners the assurance that installed cabling will support bandwidth hungry services like VoIP, IP CCTV and video streaming at full gigabit speeds without dropping data packets as required by the IEEE 802.3ab Ethernet standard.



Description	Cat. No.
SignalTEK® II FO Transmission Tester for Copper/Fiber Data Cable and Active Networks 1 x Near-End unit (copper and fiber), 1 x Remote unit (copper and fiber), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 12 in. RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	R156001
SignalTEK® CT Transmission Tester for Copper Data Cable 1 x Near-End unit (copper and fiber), 1 x Remote unit (copper and fiber), 2 x Power module (rechargeable), 2 x Mains PSU/charger, 2 x 12 in. RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	R156002

SecuriTEST® PRO CCTV/Security Tester

SecuriTEST® PRO is the most versatile all-in-one installation and troubleshooting tool for the CCTV professional. CCTV installers often need to carry a variety of testing tools to complete their work. SecuriTEST® PRO combines the most-needed tools in one easy-to-carry package. Since all connections (video/communications/DMM) attach to a single unit, SecuriTEST® PRO eliminates the need to juggle several devices while on a ladder or lift, making working conditions safer and increasing productivity.

- IRE video level and sync tests
- Sound level test through integrated speaker and on screen level indicator
- High capacity lithium ion battery
- Support for additional PTZ protocols
- Carrying case included
- **Seven Essential CCTV Tools** - Combines a CCTV video tester, PTZ camera controller, Digital Multimeter, 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 2.5 in. (6.3 cm) 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® PRO CCTV/Security Tester only	33-892
Replacement Lithium Polymer (LiPo) Battery	33-892-BP

VDV II Voice, Data and Video Cable Verifier

The new VDV II Series are easy to use cable testers that check the integrity of copper cables commonly found in domestic, commercial or industrial voice, data or video installations, including telephone wiring, data network and video/security cabling.

- **Accurate** – Advanced TDR (Time Domain Reflectometry) measures cable length and provides distance to fault information (Pro model)
- **Fast** – Identifies wiring errors instantly and displays the results all on one screen (all models)
- **Intelligent** – Quickly determines which media service is running over cables, such as ISDN, PBX and PoE (Pro model)



Description	Cat. No.
VDV II Cable Verifier includes: Tester, remote, battery and user's guide	R158000
VDV II Plus Cable Verifier includes: Tester, remote, battery, user's guide, cables, adapters and carrying case	R158002
VDV II Pro Cable Verifier includes: Tester, remote, battery, user's guide, cables, adapters and carrying case	R158003
RJ-45 Remote Units (12) - #1 - #12	158050
RJ-45 Identifiers (24) - #1 - #24	158051
Coax Remote Units (12) - #1 - #12	158053



VDV MultiMedia Cable Tester

All in one tester for installers working with voice, data and video applications.

- **Voice** – tests 2 or 3 pair, 6-position RJ-11/12 phone cables for wiremap/continuity.
- **Data** – tests 8 position 8 contact CAT 3/5e/6/6a shielded and unshielded cable testing for wiremap/continuity to TIA 568A/B standards
- **Video** – tests coax cable for opens and shorts via F-connector interface
- Wiremap tests for opens, shorts, miswires, reversals and split pairs.
- LCD display with "PASS or ERROR" indicator displayed after each test
- Internal tone generator: Tone by pin/pair/entire cable with four different tones making fault isolation easier
- Main remote stores in base of tester



Description	Cat. No.
VDV MultiMedia Cable Tester	33-856

Test-Tone-Trace Kit

- Kit includes the VDV (33-856), Amplifier Probe (62-164), carrying case and accessories
- Tests and traces coax, twisted pair and telephone cables



Description	Cat. No.
Test-Tone-Trace Kit	33-866

LinkMaster™ Tester

LED based tester for wiremapping CAT 3/5e/6/6a twisted pair cabling.

- Wiremap for opens, shorts, reversal, miswire and split pair
- Tests by pair: 1/2, 3/6, 4/5, 7/8
- Tests shielded and unshielded RJ-45 cabling
- Debug feature cycles through errors one at a time



Description	Cat. No.
LinkMaster™ Tester and Remote	62-200

MiniTracker™ PRO Tester

- Coax cable mapper and tracer with eight remotes
- LEDs identify remote number, opens and shorts
- Built in Tone Generator
- Includes carrying case with tester and remote storage



Description	Cat. No.
MiniTracker™ PRO	62-1202

PRO Amplifier Probe and Tone Generator Kit

Amplifier Probe

- Identifies and traces wire or cables within a group
- Adjustable volume knob
- Detects and audibly amplifies analog tone generation
- Compatible with all IDEAL tone generators

Tone Generator

- Emits three tone patterns
- F-Connector & RJ-11/12 interface for toning twisted pair and copper cables
- Includes alligator clips for toning de-energized copper cables
- Auto-off after three hours of non-use



Description	Cat. No.
Amplifier Probe & Tone Generator Kit - includes 62-164, 62-160, Lead Set, Cable Assembly	33-864
Amplifier Probe	62-164
Tone Generator	62-160

TRACETone® Tone Generator & Amplifier Probe Tester

- Economical solution for tracing copper low-voltage cabling
- Two selectable tone styles
- Adjustable volume control
- RJ-11 Alligator Clip, RJ-11 Cable Assembly included



Description	Cat. No.
TRACETone® Tester	62-140

OmniSeal™ Pro XL Compression Tool

- Connects BNC, F-Type, RG11-F, RCA, 90°/Right Angle and Mini Coax compression connectors on coaxial cable
- Compresses ALL IDEAL compression connectors
- Fast and reliable solution to home theater, CATV, satellite systems and security applications
- Permanent connection so your connector never comes loose.
- Universal design with spin knob and adjustable post height works with most non-IDEAL compression connectors



Description	Cat. No.
OmniSeal™ PRO XL Compression Tool	30-793

LinearX®3 Compression Tool

- Adjustable post for different length/style connectors
- Compresses F/BNC/RCA connectors
- Durable & rugged zinc die-cast body with protective powder coated paint finish
- Linear stroke for consistent compression results & easy operation
- Includes four RTQ™ RG-6 Weatherproof F-Compression Connectors



Description	Cat. No.
LinearX®3 F/BNC/RCA Compression Tool (Adjustable) with four RTQ™ F-Connectors	33-632



Compression Connectors

RTQ™ Reg/Tri/Quad & Plenum F-Connectors

- Fits 60% regular, tri-shield and quad shield cables
- Nickel-plated, brass-construction for superior corrosion resistance
- Designed for use in satellite and cable TV installations
- Weatherproof for indoor and outdoor use
- Use 30-793 or LinearX® Compression Tools

RG-11 RTQ™ F-Connectors

- Fits 60% regular and quad shield RG-11 cables
- Plenum cable version also available
- Now with InSITE™ window for easier verification
- Use 30-793 Compression Tool for termination
- Standard 1/4" x 1/4" cable prep. Use 45-111 Coax Stripper

InSITE™ BNC Connectors

- Clear 360° window for confident cable insertions
- Nickel-plated, brass-construction for superior corrosion resistance
- Moisture-inhibiting design
- Use 30-793 or 33-632 Compression Tool
- 75 Ohm nominal impedance
- Gold-plated pin contact area
- Available in straight, 90° and plenum versions

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
- Two-piece pre-assembled connectors

NJX™ Connectors






















- 75 ohm nominal impedance
- Bandwidth up to 3 GHz
- Compatible with all IDEAL Compression Tools
- Compact body size
- RG-6 and RG-6 Quad versions

TLC™ Connectors

- No compression tool required
- 75 ohm nominal impedance
- Bandwidth up to 3 GHz
- Compact body size
- RG-6 and RG-6 Quad versions



Compression Connectors

Type		Image	Series/Model #	Cable Type	Center Conductor	Dielectric Diameter	Jacket Diameter	Quantity	Cat. No		
BNC	RG-59		InSITE™ Model #59BNCIS	RG-59	23-18 AWG Solid .023" - .040"	.142" - .148"	.230" - .250"	Card of 4	92-704		
								Card of 15	89-047		
								Jar of 35	89-5047		
								Bulk 1,000	89-1047		
				InSITE™ 90° Model #59BNCRAIS	RG-59	23-18 AWG Solid .023" - .040"	.142" - .148"	.230" - .250"	Card of 5	92-693	
								Jar of 20	92-692		
				InSITE™ Model #59PLBNCIS	RG-59 Plenum	23-18 AWG Solid .023" - .040"	.134" - .140"	.193" - .224"	Card of 15	89-049	
								Jar of 35	89-5049		
				InSITE™ RTQ™ Model #6BNCISRTQ	RG-6 RTQ™ & Plenum 6 RTQ™	23-18 AWG Solid .023" - .040"	.168" - .183"	.226" - .305"	Card of 4	92-705	
F	RG-6							Card of 15	89-048		
								Jar of 35	89-5048		
					InSITE™ RTQ™ Model #6PLBNCISRTQ	RG-6 Plenum RTQ™	23-18 AWG Solid .023" - .040"	.158" - .170"	.226" - .268"	Card of 15	89-050
								Jar of 35	89-5050		
					InSITE™ 90° Model #6BNCRAISRTO	RG-6 RTQ™ & Plenum 6 RTQ™	23-18 AWG Solid .023" - .040"	.168" - .183"	.226" - .305"	Card of 5	92-695
								Jar of 20	92-694		
				RTQ™ Model #6FRTQ	RG-6 RTQ™	N/A	.175" - .183"	.260" - .305"	Card of 10	92-651	
								Jar of 50	92-650		
								Jar of 100	92-656		
								Bulk 1,000	92-659		
			InSITE™ RTQ™ 90° Model #6FRAISRTO	RG-6 RTQ™ & Plenum 6 RTQ™	23-18 AWG Solid .023" - .040"	.168" - .183"	.226" - .305"	Card of 5	92-691		
							Jar of 25	92-690			
			NJX™ Model #6FNJX	RG-6	N/A	.175" - .183"	.254" - .278"	Card of 10	89-040		
								Card of 50	89-042		
			TLC™ Model #6FTLC	RG-6	N/A	.175" - .183"	.254" - .278"	Card of 10	85-068		
								Card of 50	85-168		
			TLC™ Model #6QFTLC	RG-6Q	N/A	.175" - .183"	.275" - .305"	Card of 50	85-178		
			OmniConn™ Model #6FOC	RG-6	N/A	.175" - .183"	.260" - .280"	Jar of 50	89-044		
								Bulk 1,000	89-1544		
			Cable Specific Model #6PLF	RG-6 Plenum	N/A	.165" - .174"	.220" - .250"	Jar of 50	92-660		
			RTQ™ Model #6QFRTQ	RG-6 Quad	N/A	.175" - .183"	.270" - .310"	Jar of 50	92-655		
			NJX™ Model #6QFNJX	RG-6 Quad	N/A	.175" - .183"	.275" - .305"	Card of 10	89-041		
								Card of 50	89-043		
			OmniConn™ Model #6QFOC	RG-6 Quad	N/A	.175" - .183"	.270" - .295"	Jar of 50	89-045		
	RG-59		RTQ™ Model #59FRTQ	RG-59 RTQ™	N/A	.142" - .148"	.230" - .270"	Card of 10	92-611		
								Jar of 50	92-610		
	RG-11		Cable Specific Model #11FISRTQ	RG-11 RTQ™	18-14 AWG Solid .040" - .066"	.277" - .285"	.390" - .410"	Card of 10	89-211		
								Bulk 500	89-1211		
			Cable Specific Model #11PLFIS	RG-11 Plenum	18-14 AWG Solid .040" - .066"	.270" - .276"	.340" - .348"	Card of 10	92-212		
RCA	RG-59		RTQ™ Model #59RCARTQ	RG-59 RTQ™	20-18 AWG Solid .029" - .040"	.142" - .148"	.230" - .270"	Jar of 35	89-570		
	RG-6		RTQ™ Model #6RCARTQ	RG-6 RTQ™	20-18 AWG Solid .029" - .040"	.175" - .183"	.267" - .305"	Jar of 35	89-580		



Crimpmaster™ Ratcheting Crimp Tool

- Ratcheting tool frame ensures full crimp cycle
- Provides a consistent crimp every time
- Dies change quickly and easily with a screwdriver
- Tool frame works with all IDEAL Crimpmaster™ Die Sets
- Cushioned, comfort-grip handles



Description	Cat. No.
Crimpmaster™ Crimp Frame Tool (Die set not included)	30-506

Crimpmaster™ Tools and Die Sets



30-556 Tool w/die N/A
RJ-11 Crimp Tool for two, four or six-position modular plugs



30-559 Tool w/die 30-522
RJ-45 CAT 5/5e Eight-position Crimp Tool for keyed or non-keyed modular plugs



30-560 Tool w/die 30-521
RJ-45 Eight-position Crimp Tool for AMP® RJ-45 modular plugs



30-573 Tool w/die 30-481
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 (5.79mm))



30-576
RG-174, Mini 59 BNC/TNC Connectors (Hex, 0.178 (4.52mm), 0.128 (3.25mm), 0.068 (1.73mm))



30-577 Tool w/die 30-482
N-Series and RG-8/11 Connectors (Hex, 0.429 (10.90mm), 0.100 (2.54mm), 0.080 (2.03mm))



30-578 Tool w/die 30-483
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))



30-581 Tool w/die 30-502
RG-58, RG-59/62, BNC/TNC Coax Connectors (Hex, 0.255 (6.48mm), 0.213 (5.41mm), 0.068 (1.73mm))



30-582 Tool w/die 30-503
F-type CATV RG-59, RG-6 Connectors (Hex, 0.350 (8.89mm), 0.320 (8.13mm), 0.255 (6.48mm))



30-587 Tool w/die N/A
RG-58, RG-174 and G-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))



30-591 Tool w/die N/A
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))



30-593 Tool w/die N/A
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))



30-572 Tool w/die N/A
16-26 AWG (1.31mm² - .128mm²) miniature insulated rings, spade and butt splices



30-579 Tool w/die 30-500
22-10 AWG (.324mm² - 5.261mm²) insulated terminals/color coded nests



30-580 Tool w/die N/A
22-8 AWG (.3mm² - 8mm²) non-insulated terminals



30-586 Tool w/die N/A
22-12 AWG (.324mm² - 3.31mm²) Non Insulated Open Barrel Connectors, Commercial Type



30-594 Tool w/die N/A
Fully Insulated quick disconnect terminals with thinner wire barrels 22-10 AWG (.324mm² - 5.261mm²)



30-599 Tool w/die N/A
30-18 AWG (.205mm² - 2.08mm²) Open Barrel Pins and Sockets

Crimp-on F-Connectors

Nickel plated brass connectors designed for indoor coax terminations for video and other RF applications

- RG-59, RG-6, RG-6 Quad versions are available
- All versions require a hex crimp to secure cable to connector
- 1/4" x 1/4" cable prep for all models
- Crimp with 30-503 Crimpmaster™ Ratcheting Crimp tool
- Hex crimp sizes: RG-59 and RG-6, .320" cavity. RG-6 Quad, .350" cavity



Description	Quantity	Cat. No.	Quantity	Cat. No.
RG-6 F Crimp-on Coax Connector	Card of 10	85-037	Card of 50	85-017
RG-59 F Crimp-on Coax Connector	Card of 10	85-036	—	—
RG-6 Quad F Crimp-on Coax Connector	Card of 10	85-053	Card of 50	85-039

Twist-On F-Connectors

- After cable is 1/4 in. x 1/4 in. stripped, simply twist on connector
- No termination tool required
- Available in two styles, RG-6 and RG-59



Description	Quantity	Cat. No.
F-Type RG-6 Twist-On Connector	Card of 10	85-053
	Card of 50	85-039
F-Type RG-59 Twist-On Connector	Card of 4	84-018
	Card of 10	85-035

Connector Installation and Removal Tool

- Patented design works on BNC and F connectors
- Works on compression and hex connectors
- Comfort grip handle aids in installing and removing connectors on coax cable
- F-post for aid in cable to connector assembly



Description	Cat. No.
F & BNC Coax Connector Tool - 8 in.	35-046
F & BNC Coax Connector Tool - 12 in.	35-042

Coax Strip & 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

F-Type Adapters & Terminators

- Nickel-plated brass construction
- For 75Ω applications

Description	Quantity	Cat. No.
1GHz Female-to-Female F-Type Coaxial Adapter 	Card of 10	85-031
3GHz F-Splice Adapter, high bandwidth, for standard and high definition applications, <0.25dB insertion loss, >25dB return loss 	Card of 4	85-339
	Card of 10	85-340
Female to RCA Male Adapter – converts female F-connectors to male RCA connectors 	Card of 2	85-936
RCA Female-to-Female Adapter 	Card of 2	85-937
Coax Cable F-Terminators - for all open ports on coax wall plates and splitters 	Card of 10	85-038
90° F-Adapter - F-female to F-male coax adapter 	Card of 2	85-070






Impact Punch Down Tools

- Insert and cut cable terminations effortlessly
- Adjustable high/low actuation setting accommodates termination requirements
- Turn-Lock™ Style blade holding design
- Impact-absorbing cushioned grip reduces operator stress for high volume installers



Description	Cat. No.
Punchmaster™ II Punch Down Tool w/full 110 & 66 blades	35-485

Punch Down Tool Blades

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

Bix® is a registered trademark of Nortel. Krone® is a registered trademark of Krone, Inc.

Ratchet Telemaster™ Modular Plug Crimping Tool

- Heavy-duty version of the 30-496 Telemaster™ tool requires less user hand force
- Ratchet ensures full cycle crimping every time
- Crimps RJ-45 (8P8C) and RJ-11/12 (6P6C/6P4C) modular plugs
- Multi-function tool also cuts UTP/STP and strips CAT 5e/6 cable jacket and flat cable jackets
- Black oxide coated steel frame with cushioned handles for strength and comfort



Description	Cat. No.
Ratchet Telemaster™	30-696
Replacement Cut & Strip Blade Set for 30-696	LA-4102

Telemaster™ Modular Plug Crimping Tool

- Crimps RJ-45 (8P8C) and RJ-11/12 (6P6C/6P4C) modular plugs
- Multi-function tool also cuts UTP/STP and strips round CAT 5e/6 cable jacket
- Black oxide coated steel frame with contoured handles for strength and comfort



Description	Replacement Blade	Kit Cat. No.	Tool Only Cat. No.
Telemaster™ Crimping Tool RJ-45 and RJ-11/12	LB-1747	33-700*	30-496

*Kit includes 10 each, RJ-45 8P8C, RJ-11 6P6C and RJ-11 6P4C modular plugs.

Data/Voice Crimp Tool Kit

- Compact design is 2/3 the size of traditional crimpers
- Fixed RJ-45 and RJ-11 crimp cavities
- One tool assembly process – cut, strip and crimp connectors on to CAT 3/5e/6 cables
- Black oxide coated steel core with spring loaded handle and locking feature



Description	Cat. No.
Data/Voice Crimp Tool Kit includes ten RJ-11 (6P6C) and ten RJ-45 connectors	33-396

Telephone/Data Cable Splice and Repair Kit

- All in one specialty tool for crimping UR/UY/UB IDC splice connectors
- Features a parallel crimping surface to prevent damage to connectors during crimping process
- Two stripping holes for 22 to 24 AWG (phone/twisted pair) cables
- Cutter for cable and conductor trimming
- Plier nose for pulling and sorting wires in a box



Description	Cat. No.
Kinetic® Super Wire Stripper/Crimper Kit – includes 25 IDC connectors (UR-I, 3-Wire Butt Splice)	33-719

Insulation Displacement Connectors

IDC connectors create fast splice and tap connections on solid copper wires. Designed for low voltage telecommunication cables.

- Moisture-resistant sealant protects wires from corrosion
- Use with solid copper single-conductor wire
- Use 33-719 tool for proper crimping force and crimping angle



85-925



85-950



85-900

Description	Quantity	Cat. No.
UR-I, 3-Wire Butt Splice IDC	25	85-925
UR-I, 2-Wire Butt Splice IDC	100	86-925
IDC Combo Pack – includes 10 UR, 10 UY and 5 UB	25	85-960
UY-I, 2-Wire Butt Splice IDC	25	85-950
UB-I, 2-Wire Tap Splice IDC	25	85-900

CAT 5e RJ-45/RJ-11 Modular Plugs

- Plugs support the latest cable system performance categories when installed in compliance with appropriate standards and methods
- Plugs work with 24 AWG solid or stranded conductors and round or flat cables.
- 50 micron gold contacts



Description	Quantity	Cat. No.
CAT 5e 8-Position 8-Contact, RJ-45	10	85-147
	25	85-346
	50	85-396
	100	86-396
6-Position 6-Contact, RJ-11 (RJ-12)	25	85-345
6-Position 4-Contact, RJ-11	25	85-344

CAT 6 RJ-45 Modular Plugs

- 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 – 23 AWG
- Not compatible with Crimpmaster™ RJ-45 Die Set



Description	Quantity	Cat. No.
CAT 6 RJ-45 Modular Plugs	25	85-366

Compatible with IDEAL 30-696, 30-496 and 33-396 Modular Plug Crimp Tools.

Strain Relief Boots for Modular Plugs

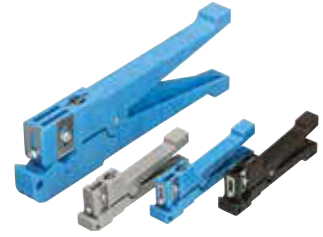
- Prevents broken connector tabs and snagging while extending connector life
- Minimizes cable bends that can reduce data speed and result in data loss
- Dampens cable movement and vibrations that can result in premature connector failure
- For CAT5e and CAT6 RJ-45 modular plugs



Description	Quantity	Cat. No.
Strain Relief Boots for Modular Plugs	25	85-380
15 Strain Relief Boots and 15 8P8C RJ-45 Modular Plugs	15	85-379

Ringer™ Adjustable Blade Strippers

- Four models cover cable diameters up to 9/16"
- All models include two adjustable depth blades and one adjustable slitting blade
- Common uses are for fiber jackets, mini-coax prep, twisted pair cables and other specialty copper cables where standard stripping products are not available
- Replacement blades available for all models



Description	Typical RG Cables	Replacement Blade*	Cat. No.
Cable Stripper, up to 1/8 in. (3.2mm) O.D. (Gray)	RG-174, RG-187	L-9225	45-162
Cable Stripper, 1/8 in. (3.2mm) to 7/32 in. (5.556mm) O.D. (Blue)	Mini Coax RG-58,CB	L-9225	45-163
Big Blue Cable Stripper, 1/4 in. (6.4mm) to 9/16 in. (14.3mm) O.D. (Blue)	RG-11, RG-8	L-9226	45-164
Cable Stripper, 3/16 in. (4.8mm) to 5/16 in. (8mm) O.D. (Black)	RG-59/6, UTP Cable	L-9225	45-165

*A set of blades consists of three straight blades and one round blade.

Economy UTP Cable Stripper

- Strips Cat 3, 5, 5e & 6 cables
- One-step stripping



Description	Cat. No.
Economy UTP Cable Stripper	45-167

PrePRO® Coax/UTP Cable Stripper

- Auto adjusting blade depth for 6/6Quad/59 coax cable
- 1/4" x 1/4" coax preparation
- Replaceable blade cartridges
- CAT5e/6 jacket stripping
- Spring loaded for consistent cutting force



Description	Cat. No.
PrePRO® Coax/UTP Cable Stripper	45-605
Replacement Coax Cartridge for 45-605	45-6051
Replacement UTP/STP Jacket Cartridge for 45-605	45-6052

Video Coax Stripper

- Designed for fast and easy 1/4" x 1/4" strip lengths
- Blades auto-adjust to different diameter coax cables
- Spinner ring for fast stripping
- Strips RG-6/6 Quad and RG-59 coax cable



Description	Cat. No.
Video Coax Stripper	45-321

Adjustable Blade Coax Strippers

- Two and three blade models for prepping coax cables
- Adjustable blade depth (hex wrench included in handle) for fine calibration to any cable jacket thickness and overall diameter.
- All blades are spaced approximately 1/4" apart for compatibility with traditional compression or crimp connectors requiring a 1/4" x 1/4" cable preparation.
- Blades can be adjusted to a no-cut position for most size cables when only a single blade is needed.
- Slider bar offers fast variation in blade depth without need for adjusting the individual hex screws.



Description	Replacement Blade	Cat. No.
Coax Stripper - 2 Step (Blue cartridge)	45-524	45-526
Coax Stripper - 3 Step (Black cartridge)	45-522	45-520

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



Description	Replacement Blade	Cat. No.
Coax Stripmaster® for RG-6 Coax Cable	LB-740	45-262
Coax Stripmaster® for RG-59 Coax Cable	LB-743	45-265
Coax Stripmaster® for RG-6 Quad Shield Coax Cable	LA-3953	45-282

RG-11 Coax Stripper

- For use with IDEAL RG-11 compression connectors (89-211, 89-1211), provides 1/4 in. x 1/4 in. strip
- Fixed blade depth



Description	Cat. No.
RG-11 Coax Stripper for Compression Connectors	45-111

Round Cable Slitting & 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	Replacement Blade*	Cat. No.
Round Cable Slitting and Ringing Tool	LB-1748	45-144

*2/package

Data T[®]-Cutter

- Cuts any round copper cable and helps maintain cable geometry
- Compact size is smaller and lighter than traditional 9" cable cutters
- Steel reinforced center conductors can be trimmed with bolt cutting holes
- Locking latch keeps tool closed in pouch



Description	Cat. No.
Data T [®] -Cutter	45-074

Electrician's Scissors

- 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
- Stripping notches strip 19 and 23 AWG wire
- Chrome over nickel plating



Description	Cat. No.
Electrician's Scissors w/stripping notches	35-088

Cable Splicing Kit

- Kit designed for use in telephone and electrical service applications
- High carbon steel blade in Splicing Knife remains sharp and cuts easily through many insulation types
- Kit includes Scissors 35-088, Splicing Knife 35-1091 and Leather Holder



Description	Cat. No.
Cable Splicing Kit	35-093
Cable Splicing Knife	35-1091

2.4 GHz Satellite & Digital TV Splitters

- Designed for easy mounting over cable
- All ports are F female connectors, 75Ω
- Two grounding screws eliminate the need for grounding block
- All ports power pass



Description	Cat. No.
2-Way, 5MHz - 2.4GHz	85-332
3-Way, 5MHz - 2.4GHz	85-333
4-Way, 5MHz - 2.4GHz	85-334

1 GHz Cable TV/General Purpose Splitters

- Nickel-plated housing, soldered back
- High-performance Printed Circuit Board design



Description	Cat. No.
High Performance Cable Splitter, 5MHz-1GHz, 2-Way	85-132
High Performance Cable Splitter, 5MHz-1GHz, 3-Way	85-133
High Performance Cable Splitter, 5MHz-1GHz, 4-Way	85-134
High Performance Cable Splitter, 5MHz-1GHz, 8-Way	85-138

Grounding Block

- Solid zinc alloy, nickel plated and chromate finished
- High Performance beryllium copper contact
- Electrical performance rated 0 - 3 GHz
- Dual grounding holes can accept up to #6 wire



Description	Cat. No.
3 GHz Double Grounding Block	85-311



Use terminators (85-038) on all unused ports for optimal performance.

Master Series Network Service Kit

- Kit allows user to cut, strip, terminate and test data cables. Use for Cat 5e, Cat 6 and voice installments.
- Kit Includes: Ratchet Telemaster™ 30-696, Punchmaster™ II w/110 Blade 35-485, Probe Pic and Spudger 35-473, UTP/STP Stripper 45-165, Electrician's Scissors 35-093, 66 Blade only 35-497, LinkMaster™ Tester 62-200, 7-in-1 Twist-a-Nut™ Screwdriver 35-908, PRO Amplifier Probe & Tone Generator Kit 33-864, Kinetic Super™ Wire Stripper/Crimper 45-719, 8-Position, RJ-45 Modular Plugs, qty. 50 85-396, Large Mouth Bag - 13 in. 35-410



Description	Cat. No.
Master Series Network Service Kit	33-706

RF Coax Crimp & Compression Kit

- Professional kit for security and cable/satellite installers to crimp or compress F and BNC coax connectors. Multiple die sets offer a wide range of connectors to terminate.
- Kit Includes: OmniSeal™ Pro XL Compression Tool 30-793, Ratchet Crimp Tool 30-503, 2-Step Coax Stripper 45-526, 3-Step Coax Stripper 45-520, 45-521 Replacement Cassette 45-523, Data T®-Cutter 45-074, 58/59 BNC/TNC Die Set 30-581, RG-59 Cambridge-type Die Set 30-573, RG-174, Mini-59 Die Set 30-576, RG-6 RTQ™ Compression F-Connector, 50/jar 92-650, Mechanic's Bag 35-535



Description	Cat. No.
RF Coax Crimp & Compression Kit	33-410

Pro XL Compression Hip Kit

- Cut, strip and terminate in one handy professional tool kit.
- Kit Includes: OmniSeal™ Pro XL Compression Tool 30-793, PrepPRO® Coax (59/6/6Q)/UTP Cable Stripper 45-605, Data T®-Cutter 45-074 and Pouch with Belt Clip



Description	Cat. No.
Pro XL Compression Hip Kit	33-793

LinearX® Hip Kit

- Cut, strip and terminate F connectors in one handy starter tool kit.
- Kit Includes: LinearX®1 Compression Tool 33-631, PrepPRO® Coax (59/6/6Q)/UTP Cable Stripper 45-605, Data T®-Cutter 45-074 and Pouch with Belt Clip



Description	Cat. No.
LinearX® Hip Kit	33-622

Service Compression Kit

- Service kit includes both F and BNC connectors as well as professional tools to cut, strip and terminate coax cables. Designed for security and cable/satellite installation.
- Kit Includes: OmniSeal™ Pro XL Compression Tool 30-793, Data T®-Cutter 45-074, Coax Stripmaster® Wire Stripper for RG-6 45-262, Compression F-Connector Port Seals (qty. 5) 89-127, BNC RG-6 Compression Connectors (qty. 10) 89-047, BNC RG-59 Compression Connectors (qty. 10) 89-048, RG-6 RTQ™ Compression Connectors (qty. 50) 92-650, RG-6 Plenum Compression Connectors (qty. 10) 92-660, Replacement Blade for 45-262 LA-3953



Description	Cat. No.
Service Compression Kit	33-639

Economy Compression Kit

- Starter kit includes the tools and connectors to cut, strip and terminate coax cables.
- Kit Includes: LinearX®3 Compression Tool 33-632, Data T®-Cutter 45-074, PrePRO® Cable Stripper 45-605, RG-59 RTQ™ Compression Connectors (qty. 10) 92-610, RG-6 RTQ™ Compression Connectors (qty. 30) 92-650



Description	Cat. No.
Economy Compression Kit	33-620

Technician's Service Kit

- Kit includes tools to install twisted pair cable on blocks and data jacks.
- Kit Includes: Electrician's Scissors w/Stripping Notches 35-088, Probe Pic & Spudger 35-473, Punchmaster™ Punch Down Tool w/110 Blade 35-485, 66 Blade Only 35-497, 7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver 35-908, UTP/STP Stripper 45-165, Nylon case 62-205



Description	Cat. No.
Technician's Service Kit	33-505

RJ-45/11 Four, Six & Eight-Position Combination TelCom Termination Kit

- TelCom Kit is designed for the user who will terminate RJ-11 and RJ-45 twisted pair cables.
- Kit Includes: Telemaster™ for RJ-11/RJ-45 Plugs 30-496, 4-Position RJ-11 Modular Plugs (qty. 15) 85-344, 6-Position RJ-11 Modular Plugs (qty. 15) 85-345, 8-Position RJ-45 Modular Plugs (qty. 15) 85-346



Description	Cat. No.
TelCom Termination Kit	33-704

RJ-45 Termination Kit

- Suited for the user who will cut and terminate RJ-45 Modular Plugs. The Kit includes 50 modular plugs, enough to make 25 separate cables.
- Kit Includes: Telemaster™ for RJ-11/RJ-45 Plugs 30-496, UTP/Coax Stripper 45-165, 8-Position RJ-45 Modular Plugs (qty. 50) 85-346



Description	Cat. No.
RJ-45 Termination Kit	33-750

Telemaster™ Crimp Kit

- Kit Includes: Telemaster Tool for RJ-11 (1, 2, 3 pair) and RJ-45 Plugs 30-496, RJ-45 8P8C (qty. 10) 85-346, RJ-11 6P6C (qty. 10) 86-395, RJ-11 6P4C (qty. 10) 85-344



Description	Cat. No.
Telemaster™ Crimp Kit	33-700

PRO Network/Telco Installer Kit

- Kit allows user to terminate modular plugs as well as data blocks or jacks.
- Kit Includes: Ratchet Telemaster™ 30-696, Punchmaster™ II 110 Blade only 35-485, Probe Pic and Spudger 35-473, UTP/STP Stripper 45-165, Electrician's Scissors w/Stripper Notches 35-088, 66 Blade only 35-497, 8-Position RJ-45 Modular Plugs (qty. 50) 85-396, Mechanic's Bag 35-535



Description	Cat. No.
PRO Network/Telco Installer Kit	33-506

Crimpmaster™ 10Base-T RJ-45 Crimping Kit

- Kit allows user to terminate modular plugs as well as data blocks or jacks.
- Kit Includes: Crimpmaster™ Crimp Tool Frame only 30-506, 8-Position Die Set for RJ-45 Plugs 30-559, Data T[®]-Cutter 45-074, UTP/Coax Stripper 45-165, 8-Position RJ-45 Plugs (qty. 200) 86-396



Description	Cat. No.
PRO Network/Telco Installer Kit	33-652

FiberMASTER™ Fiber Optic Test Kit

- **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 quick dB loss measurements eliminating the need to manually calculate loss.
- **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.



Description	Cat. No.
Power meter only	33-927
Power meter with 850NM fiber light source	33-928
Four wavelength MM/SM light source only	33-929
Power meter with four wavelength MM/SM light source (33-927 & 33-929)	33-931

Visual Fault Finder

Laser light source used to locate breaks, faulty splices and crimps

- 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 solid aluminum body
- Nylon carrying case with belt loop included



Description	Cat. No.
Visual Fault Finder	VFF5

Note: ST® is a registered trademark of AT&T.

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

Stripmaster® Ribbon Fiber Jacket Stripper

- Removes jacket from Ribbon Fiber without damage to the Kevlar® strength member of the Ribbon Fiber



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 E. I. du Pont de Nemours and Company. Corning® is a registered trademark of Corning, Inc. Frame and blade set sold separately.

DualScribe™ Double-Ended Fiber Optic Scribes

- Three professional quality blade styles to choose from to meet your specific needs – Ruby, Sapphire, 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	Cat. No.
Ruby Blade Fiber Optic Scribe (Red Handle)	45-357
Sapphire Blade Fiber Optic Scribe (Blue Handle)	45-358
Carbide Blade Fiber Optic Scribe (Black Handle)	45-359

Serrated Kevlar® Cutter

- Superior quality high-carbon stainless steel with molybdenum and vanadium provides hard, razor-sharp edges
- Breaker notch cuts jacket and breaks fiberglass in one step
- Textured cushioned-grip handles
- Designed to cut up to 3mm fiber cables



Description	Cat. No.
Serrated Cutter w/Breaker Notch (Patent pending)	45-344

Note: Kevlar® is a registered trademark of E. I. du Pont de Nemours and Company.



ALPHABETICAL INDEX

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

<u>Item</u>	<u>Page</u>
11-in-1 Screwdriver	B-40
21-in-1 Screwdriver	B-38
3-in-1 Tap Tool	B-39
4-in-1 Test Tool	D-8
6-in-1 Tap Tool	B-39
7-in-1 Screwdriver	B-38
7-in-1 Stripper	B-21
9-in-1 Screwdriver	B-38
A	
Abrasives, Flexible	B-128
Accessories,	
Tuff-Grip™ Pro	B-6
Adapters	
Alligator Clip	D-17
Socket	B-49
F-Type	E-10
Ground	D-17
Adjustable Wrenches	B-31
Alligator Clip Adapter	D-17
Aluminum Benders	B-17
Amplifier Probe	E-5
Anchor Kits	B-84
Anti-Oxidant, Noalox®	B-12
Apron, Supplies	B-58
Aqua-Gel® CW Cable Pulling	
Lubricant	B-11
Aqua-Gel® II Cable Pulling	
Lubricant	B-10
Aqua-Gel® IIP Cable Pulling	
Lubricant	B-11
Arbor Extension	B-67
Arbors, Hole Saw	B-68
Auger Bits	B-72
Augers, RESI-MASTER™	B-74
Aviation Tin Snips	B-30
Awl	B-43
B	
B-CAP® Wire Connectors	A-9
B-TAP® Insulation-Piercing Tap	
Connectors	A-42 thru A-43
B-Twist™ Wire Connectors	A-9
Bags, Large Mouth	B-59
Barricade Tapes	B-114
Barrier Strips	A-35
Belts	B-58
Bender Guide	B-17
BenderBoot™	B-17
Benders	B-17
Bi-Metal Hole Saws	B-66
Big Kahuna™	
Cable Cutter	B-36
Bit	
Blocks	B-44
Bit Holder	B-49
Bits	B-46 thru B-48
Combo Head™	B-47
Double-Ended	B-47
Installer	B-70
Mini™ Auger	B-72
Phillips	B-48
Slotted	B-47
Spade	B-70

<u>Item</u>	<u>Page</u>
Bits	
Square	B-48
Tamper-Proof	B-48
Torx®	B-47
Wood Boring	B-71, B-72
Blades	
Hacksaw	B-33
Punch Down	E-10
Reciprocating	B-75, B-76
Stripmaster® Wire	
Stripper	C-5
Blued-Steel™ Fish Tapes	B-4
Booklets, Wire Marker	B-87
Breaker Lockouts	B-107
BULZ-EYE™ Wood	
Boring Bits	B-71, B-72
C	
Cabinet Screwdrivers	B-42
Cable Cutters	
B-27, B-34 thru B-36	
Insulated	B-54
Cable Pulling Lubricant	
Aqua-Gel®	B-10, B-11
Cable Ripper	B-22
Cable Slitting Tool	B-23, E-14
Cable Staples	B-85, B-86
Cable Stripper	B-22, E-13
Cable Tie Tools	B-78
Cable Ties	B-79 thru B-82
Cable Verifier, VDV II	E-5
Can Light Hole Saw	B-69
Carbide Hole Cutters	B-65
Carrying Cases,	
Multimeters	D-19
Testers	D-19
Insulated Tool	B-54
CAT 6 Modular Plugs	E-12
CAT5e Modular Plugs	E-12
Center Punch	B-32
Channel Clamps	A-41
Chisel	B-32
Chuck, Quick-Change	B-49
Circuit	
Analyzer	D-11
Breaker Finder	D-11
Tester	D-14
Tracers	D-4 thru D-5
Clamp Meters	D-7, D-8
Clamp-Pro™ Clamp Meters	D-8
Clamps	B-79
Clamps, Channel	A-41
Cleaner, Commutator	B-128
ClearGlide® Wire Pulling	
Lubricant	B-10
Coax Cable Stripper	E-13
Coax Strip Tool	B-23
Coax Strip/Crimp Tool	B-23, E-9
Combo Head™	
Bits	B-47
Screwdriver	B-43
Combo Tool	B-23
Commercial-Grade	
Multimeter	D-12

<u>Item</u>	<u>Page</u>
Commutator Cleaner	B-128
Commutator Maintenance	
B-126 thru B-128	
Compression	
Connectors	E-7
Tool	E-6
Conduit	
Markers	B-114
Measuring Tape	B-14
Wiring Kit	B-40
Connector Installation	
Tool	E-9
Connectors	
Compression	E-7
Crimp	A-32, A-33
Crimp-on	E-9
Insulation Displacement	E-11
Tap	A-42
Twist-on	E-9
Cord	D-17
Crimp	
Connectors	A-32, A-33
Die Sets	E-8
Tool	E-8, E-10, E-11
Crimp Tool, Insulated	B-53
Crimp-on Connectors	E-9
Crimpmaster™ Ratcheting Crimp	
Tool	E-8
Custom Stripmaster® Lite Wire	
Strippers	C-8
Custom Stripmaster® Wire	
Strippers	C-7
Cutters	
Cable	B-27, B-35, B-36
Carbide Hole	B-65
Data T®-Cutter Wire	E-15
Serrated, Kevlar®	E-21
SirNickless™	B-29
Cutting Supplies	B-63 thru B-76

<u>Item</u>	<u>Page</u>
D	
Data T®-Cutter	B-22, E-15
DataComm Kits	E-17 thru E-19
Deburring Tools	B-39
Diagonal-Cutting Pliers	B-26
Die Sets, Crimp	E-8
Digital Light Meter	D-16
Disconnects	A-28 thru A-30
Divider Pouch	B-60
Door Switch	B-93
Double-Ended Bits	B-47
Drill Bits	B-64
Flexible	B-69
DualScribe™ Fiber Optic	
Scribes	E-21
Duct Seal	B-12
Ductile Iron Benders	B-17

<u>Item</u>	<u>Page</u>
E	
E-Z Check® Circuit Tester	D-14
Electrician's Tool Bag	B-59
Engraving Tools	B-31
Ergonomic Hacksaw	B-33

<u>Item</u>	<u>Page</u>
Ethernet Tester	E-3
Extension Cord	D-17
F	
F-Connectors	E-9
F-Type	
Adapters	E-10
Terminators	E-10
Fiber Optic Scribes	E-21
Fiber Optics	E-20 thru E-21
Fiber Stripper	E-20
Fiberglass Fish Tapes	B-4
FiberMASTER™ Fiber Optic	
Test Kit	E-20
Field Application Kit,	
Fish Tape	B-6
Fish Tape	
Field Application Kit	B-6
Leaders	B-6
Replacement Kits	B-7
Swivel Ball	B-6
Fish Tapes	B-3 thru B-7
Blued-Steel™	B-4
Fiberglass	B-4
Gold-Fish®	B-5
S-Class®	B-5
Stainless Steel	B-4
Volt Guard	B-5
Zoom™	B-5
Fishing Poles, Tuff-Rod™	B-7
Flexible	
Abrasives	B-128
Drill Bits	B-69
Foam Carriers	B-15
Folding Saw	B-33
Fuse Kits	A-18 thru A-22
Fuse Pullers	B-55
G	
Gold-Fish® Fish Tapes	B-5
Greenie® Grounding Wire	
Connectors	A-5
Grinder, Precision	B-128
Grip-n-Screw™ Screwdriver	B-44
Gripper Pads	C-9
Grips	B-27
Grommets	B-84
Ground Adapters	D-17
Ground Resistance	
Meters	D-15
Grounding	
Block	E-16
Products	A-15 thru A-17
Screws	A-17
Tails	A-16
Wire Connectors	A-5

<u>Item</u>	<u>Page</u>
H	
Hacksaw	B-33
Blades	B-33
Hammer	B-30
Hand Tool Kits	B-60 thru B-62
Insulated	B-51, B-52
Hasps	B-112

Item	Page
Heat Guns	B-101
Heat Shrink	B-96 thru B-100
Heat Shrink Tubing	B-98, B-99, B-100
Heavy-Duty	
Cable Ties	B-81
Hacksaw	B-33
Hex-Key Sets	B-32
Hip Holster Tool Pouch	B-58
Hole Cutters	B-65
Hole Saws	
Arbors	B-68
Bi-Metal	B-66
Can Light	B-69
IRONMAN™	B-66 thru B-67
Multi-Purpose	B-68
I	
IDEAL Wipes™	B-30
In-Sure® Push-In Wire	
Connectors	A-12
Indicator Lights	B-94, B-95
Installation Tool	E-9
Installer Bits	B-70
Insulated	
Cable Cutter	B-54
Crimp Tool	B-53
Hand Tool Kits	B-51, B-52
Knife	B-54
Nutdrivers	B-52
Pliers	B-53
Screwdrivers	B-52, B-53
Tool Cases	B-54
Tools	B-50 thru B-55
Wire Stripper	B-21, B-54
Insulation Displacement	
Connectors	E-11
Insulation Tester	D-15
Insulators	
Splice Cap	A-33
Wrap-Cap®	A-32
Intermediate Cable Ties	B-80
Iron Benders	B-17
IRONMAN™ Hole Saws	B-66
Isolated Ground Adapter	E-17
J	
Jab Saw	B-33
Jacket Wire Stripper	E-21
Jumpers	A-36, A-41
K	
Keystone Screwdrivers	B-43
Kinetic® Wire Strippers	B-19
Kits	
DataComm	E-17 thru E-19
Hand Tool	B-60 thru B-62
Heat Gun	B-101
Hole-Cutting	B-65
Insulated Hand Tool	B-51
Lockout/Tagout	B-104 thru B-106
Spade Bit	B-70
Wood Boring Bit	B-72

Item	Page
Knife	B-32
Insulated	B-54
Knives, Pocket	B-32
L	
Large Mouth Bags	B-59
Leaders, Fish Tape	B-6
Leads, Test	D-18
Level	B-30
Lever Switches	B-92
Light Meter	D-16
Lights, Indicator	B-94, B-95
Lil' Ripper Stripper™	B-21
Line Packages	B-15
LinearX®3 Compression	
Tool	E-6
Linesman Pliers	B-26
LinkMaster™ Tester	E-5
Load Center	B-87
Locking Cable	B-116
Lockout	
Cable	B-110
Signs	B-113
Systems	B-108
Switch	B-110
Tags	B-112 thru B-113
Lockout/Tagout	B-103 thru B-116
Lockout/Tagout Kits	B-104 thru B-106
Lockouts	
Breakers	B-107
Plug	B-109
Long-Arm Cable Cutter	B-35
Long-Nose Pliers	B-26
Luminaire Disconnects,	
PowerPlug®	A-13 thru A-14
M	
Magnetic	
Bit Holder	B-49
Nut Setter	B-48
Strap	D-17
Markers	
Conduit	B-114
Voltage	B-114
Marking Pen	B-88
Measuring Tapes	B-31
Mechanical Indentor	B-29
Mechanics Tool Bag	B-60
Merlin ACSR Cable Cutter	B-36
Meters	
Clamp	D-7
Ground Resistance	D-15
Light	D-16
TightSight® Clamp	D-7
Miniature Cable Ties	B-80
MiniLite-Strip™ Fiber	
Stripper	E-20
MiniTracker™ PRO Tester	E-5
Modular Plug Tool	E-11
Modular Plugs	E-12

Item	Page
Mounting	
Bases	B-83
Channels	A-41
Pads	B-83
MudBug® Wire Connectors	A-8
MULETAPE®	B-13
Multi-Crimp Strip Tool	B-23
Multi-Crimp Tools	B-27
Multi-Purpose Cable Ties	B-82
Multimedia Testers	E-4
Multimeters	D-12
Nailbiter™ Auger Bits	B-73
NM Cable Wire Strippers	B-20
N	
Nailbiter™ Auger Bits	B-73
Noalox® Anti-Oxidant	B-12
Non-Contact Voltage	
Tester	D-14
Nut Setter	B-48
Nutdriver Sets	B-44
Nutdrivers	
Insulated	B-52
Nutmaster®	B-45
O	
Off-Set Screwdriver	B-44
OmniSeal™ Pro Compression	
Tool	E-6
P	
Padlocks	B-111
Phase/Motor Rotation	
Tester	D-16
Phillips	
Bits	B-48
Screwdrivers	B-42
Pigtails	A-17
Pilot Drill, Replacement	B-65
Plastic Anchor Kits	B-84
Pliers	B-25 thru B-27
Diagonal-Cutting	B-26
Insulated	B-53
Linesman	B-26
Long-Nose	B-26
Slip-Joint	B-30
Tongue & Groove	B-27
Plenum Cable Ties	B-79
Plug Lockouts	B-109
Pneumatic Wire Strippers	C-11
Pocket Knives	B-32
Pocket Pal® Tool Holster	B-59
Pouch, Divider	B-60
Pouches, Zipper	B-60
Power Spade Bits	B-70
PowerBlade™ 750 Cable	
Cutter	B-36
PowerPlug® Luminaire	
Disconnects	A-13 thru A-14
Powr-Fish® Pull Line	B-13
Powr-Tie™ Cable Ties	B-80
Pre-Insulated Crimp	
Connectors	A-32

Item	Page
Precision Grinder	B-128
PrePRO® Coax/UTP Cable	
Stripper	E-13
Pro-Pull™ Rope	B-14
Pull Chain Switches	B-92
Pull Line	B-13
Pulling Supplies	B-13
Punch Down	
Blades	E-10
Tools	E-10
Push-Button Switches	B-92
Push-In® Wire Connectors	
	A-11 thru A-12
Q	
Quick	
Connects	A-36
Rotating Screwdriver	B-43
Quick-Change	
Chuck	B-49
Screwdriver	B-44
Step Bits	B-64
R	
Ratcheting Cable Cutter	B-35
Ratchet Crimp Tool	B-29, E-10
Ratcheting Screwdriver	B-38
Receptacle Tester	D-14
Reciprocating Blades	B-75, B-76
Reflex™ T®-Stripper Wire	
Strippers	B-19, B-20
Replacement Kits, Fish Tape	B-7
RESI-MASTER™ Ship	
Augers	B-74
Resurfacers	B-127
Resurfacing Tool	B-127
Ring Terminals	A-26
Ringer Strippers	E-13
RJ-45 Modular Plugs	E-12
Rocker Switches	B-91, B-93
Rope	B-14
Rotary Switches	B-93
Round Cable	
Slitting Tool	B-12, E-14
S	
S-Class® Fish Tapes	B-5
S-Class® Fiberglass Fish	
Tapes	B-4
Safety Signs	B-113
Saw	B-33
Scissors	E-15
Screwdriver Sets	B-41
Screwdriver	
11-in-1	B-40
21-in-1	B-38
7-in-1	B-38
9-in-1	B-38
Combo Head™	B-43
Grip-n-Screw™	B-44
Off-Set	B-44
Quick Rotating	B-43
Quick-Change	B-44



ALPHABETICAL INDEX

Item	Page
Screwdrivers	B-37 thru B-45
Cabinet	B-42
Electronics	B-45
Insulated	B-52, B-53
Keystone	B-43
Phillips	B-42
Square	B-42
Twist-a-Nut™	B-38
Twist-a-Nut™ Pro	B-40
Screws, Grounding	A-17
Scribes, Fiber Optic	E-21
SecuriTEST® PRO Security Tester	E-3
Sequence Tester	D-16
Serrated Cutter	E-21
Set Screw	
Holder	A-33
Wire Connectors	A-33
Sets	
Insulated	B-52
Nutdriver	B-44
Screwdriver	B-41
Sharpening File	B-72
Shoulder Straps	B-58
SignalTEK® II Ethernet Data Tester	E-3
Signs	B-113
SirNickless Cutter	B-29
Slim Electronics	
Screwdrivers	B-45
Slip-Joint Pliers	B-30
SLK® Disconnect Fuse	
Kits	A-18 thru A-22
Slotted Bits	B-47
Socket	
Adapter	B-49
Wire Connector	A-6
Spacer Shims	B-84
Spade	
Bits	B-70
Terminals	A-27
Spin-Twist® Wire Connector	
Socket	A-6
Splice	
Cap Insulators	A-33
Kits	B-97
SpliceLine® In-Line Wire	
Connectors	A-12
Splices	A-30 thru A-31
Splicing Kit	E-15
Split-Jaw™ Smart Meter	D-13
Splitters	E-16
Square	
Bits	B-48
Screwdrivers	B-42
Stainless Steel Fish Tapes	B-4
Standard Cable Ties	B-81
Staples	B-85 thru B-86
Step Bit Kit	B-64
Strain Relief Boots	E-12
Strap, Magnetic	D-17
Streight Kits	A-23 thru A-24

Item	Page
Stripmaster®	
Jacket Wire Strippers	E-21
Lite Wire Strippers	C-5
Wire Strippers	C-5, C-7, E-14
Strippers	
Coax	E-13, E-14
Fiber	E-20
Ringer	E-13
UTP Cable	E-13
Stud Bushings	B-84
Supplies Apron	B-58
SureTest® Circuit Analyzer	D-11
SureTrace™ Circuit Tracers	D-4 thru D-5
Switch, Door	B-93
Switches	B-89 thru B-93
Lever	B-92
Pull Chain	B-92
Push-Button	B-92
Rocker	B-91, B-93
Rotary	B-93
Toggle	B-89, B-90, B-91
Swivel Ball, Fish Tape	B-6

T	
T ™ Cutter	B-22, E-15
T®-Stripper Wire Strippers	B-19
Tags, Lockout	B-112
Tamper-Proof Bits	B-48
Tap Connectors	A-42
Tap Tool	B-39
Tapes	B-114 thru B-115
Barricade	B-114
Fish	B-3 thru B-7
Measuring	B-31
Underground	B-115
Telemaster™ Crimp Tool	E-11
Terminal	
Blocks	A-35, A-37 thru A-40
Strips	A-35
Terminals	A-25 thru A-31
Terminals	
Ring	A-26
Spade	A-27
Terminators, F-Type	E-10
Test	
Leads	D-18
Tool, 4-in-1	D-8
Test-Pro® Multimeters	D-12
Test-Tone-Trace Kit	E-4
Tester	
3-Phase Sequence	D-16
Circuit	D-14
Insulation	D-15
LinkMaster™	E-5
MiniTracker™ PRO	E-5
Phase/Motor Rotation	D-16
Receptacle	D-14
Voltage	D-13
Thermo-Shrink® Heat Shrink	
Tubing	B-98, B-99, B-100
Thermo-Shrink® Splice Kits	B-97
Thermocouple	D-17

Item	Page
TightSight® Clamp Meters	D-7
Tin Snips	B-30
TKO™ Carbide Tip Hole	
Cutters	B-65
Toggle Switches	B-89, B-90, B-91
Tone Generator	E-5
Tongue & Groove Pliers	B-27
Tool	
Bags	B-59, B-60
Carriers	B-57
Holster	B-59
Kits	B-60 thru B-62
Pouches	B-56 thru B-60
Resurfacing	B-127
Torx® Bits	B-47
TraceTone® Tone Generator	E-5
Tracers, Circuit	D-4 thru D-5
Tri-Bore™ Hole Saws	B-68, B-69
Tuff-Grip™ Pro Accessories	B-6
Tuff-Rod™ Fishing Poles	B-7
Tuff-Tote® Tool Carriers	B-57
Twist-a-Nut™ Pro	
Screwdrivers	B-40
Twist-a-Nut™ Screwdrivers	B-38
Twist-on Connectors	A-4 thru A-10, E-13
Twister® Al/Cu Wire	
Connectors	A-9
Twister® Wire Connectors	A-6

U	
U nderGround	
Feeder Cable Stripper	B-22
Tapes	B-115
Wire Connectors	A-7
Utility	
Knife	B-32
Wire Connectors	A-8
UTP Cable Stripper	E-13

V	
V -Notch Stripper	B-21
Valu-Line™ Pull Line	B-13
VDV II Cable Verifier	E-4
Velocity™ Wire Pulling	
Lubricant	B-11
Video Coax Stripper	E-13
Visual Fault Finder	E-20
Vol-Con® Elite Digital Voltage	
Tester	D-13
Volt Guard Fish Tapes	B-5
Voltage	
Markers	B-114
Tester	D-13, D-14
VoltAware™ Non-Contact	
Voltage Tester	D-14
VoltSensor™ Non-Contact	
Voltage Tester	D-14

W	
W eatherProof™ Wire	
Connectors	A-7

Item	Page
Wing-Nut® Wire	
Connectors	A-5
WingTwist® Wire	
Connectors	A-10
Wipes	B-30
Wire Connector Socket	A-6
Wire Connectors	
B-CAP®	A-9
B-Twist™	A-9
Greenie® Grounding	A-5
In-Sure® Push-In	A-12
Push-In®	A-11 thru A-12
Set Screw	A-33
SpliceLine® In-Line	A-12
Twist-On	A-4 thru A-10
Twister®	A-6
Twister® Al/Cu	A-8
UnderGround™	A-7
Utility	A-8
WeatherProof™	A-7
Wing-Nut®	A-5
WingTwist®	A-10
Wire-Nut®	A-4
WireTwist®	A-10
Wire	
Cutter	B-22
Fishing	B-3 thru B-7
Lubricants	B-8 thru B-11
Management	B-77 thru B-95
Marker Cards	B-88
Marker Dispenser	B-88
Markers	B-87
Wire Pulling Lubricant,	
ClearGlide®	B-10
Velocity™	B-11
Yellow 77®	B-9
Wire Stripper	
Insulated	B-21, B-54
Stripmaster® Jacket	E-21
Wire Strippers	B-18 thru B-21
Insulated	B-21, B-54
Kinetic® Reflex™	B-19
Pneumatic	C-11
Stripmaster®	C-5, C-7
Stripmaster® Lite	C-5
T®-Stripper	B-19
V-Notch	B-21
Wire-Nut® Wire Connectors	A-4
WireTwist® Wire Connectors	A-10
Wood Boring Bits	B-71, B-72
Wrap-Cap® Insulators	A-32
Wrenches	B-31

Y	
Y ellow 77® Plus Wire Pulling	
Lubricant	B-9
Yellow 77® Wire Pulling	
Lubricant	B-9

Z	
Z ipper Pouches	B-60
Zoom™ Fish Tapes	B-5

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
11	A-41	430	A-39	774037	B-92	2011SB	A-33
12	A-41	824	A-39	774038	B-93	2014B	A-33
41	A-41	830	A-39	774039	B-93	23-001	B-128
42	A-41	921	A-37	774045	B-91	23-002	B-128
43	A-41	0921	A-37	774056	B-91	23-003	B-128
60	A-41	924	A-37	774061	B-93	23-004	B-128
61	A-41	0924	A-37	774062	B-93	23-005	B-128
63	A-41	925	A-37	774085	B-92	23-006	B-128
64	A-41	0925	A-37	774089	B-89	23-007	B-128
67	A-41	930	A-37	774093	B-89	23-008	B-128
68	A-41	0930	A-37	774096	B-90	23-027	B-128
70	A-41	2007	A-33	774097	B-90	23-035S	B-128
113.190	B-36	2014	A-33	774113	B-84	23-036S	B-128
115	A-37	158050	E-4	774136	B-84	23-041S	B-128
120	A-37	158051	E-4	775101	B-87	23-042S	B-128
125	A-37	158053	E-4	775102	B-87	24-033	B-128
130	A-37	772271	B-84	775103	B-87	30-024	B-12
221	A-38	772450	B-84	775104	B-87	30-026	B-12
0221	A-38	772451	B-84	775111	B-95	30-030	B-12
222	A-38	774000	B-89	776111	B-95	30-031	B-12
0222	A-38	774002	B-90	776211	B-95	30-032	B-12
223	A-38	774003	B-89	776311	B-95	30-040	B-12
0223	A-38	774005	B-89	777111	B-95	30-059	A-4
230	A-38	774007	B-90	777112	B-95	30-065	A-8
0230	A-38	774008	B-89	777121	B-94	30-071	A-4
241	A-38	774009	B-89	777131	B-94	30-072	A-4
0241	A-38	774010	B-89	777211	B-95	30-073	A-4
242	A-38	774011	B-89	777212	B-95	30-073J	A-4
0242	A-38	774013	B-89	777221	B-94	30-074	A-4
243	A-38	774014	B-89	777231	B-94	30-074J	A-4
0243	A-38	774015	B-89	777311	B-95	30-076	A-4
250	A-38	774016	B-89	777321	B-94	30-076J	A-4
0250	A-38	774017	B-90	777331	B-94	30-082	A-14
281.106	B-36	774018	B-90	778111	B-95	30-083	A-14
330	A-40	774019	B-91	778211	B-95	30-087J	A-12
0330	A-40	774020	B-90	10-398	B-58	30-088J	A-12
351	A-40	774021	B-92	10-466	B-58	30-090J	A-12
0351	A-40	774022	B-92	11-113	B-31	30-092	A-5
352	A-40	774026K	B-93	11-200	B-31	30-092J	A-5
0352	A-40	774027	B-89	11-201	B-31	30-102	A-14
358	A-40	774031	B-92	2006S	A-33	30-1032	A-12
0358	A-40	774032	B-92	2006SB	A-33	30-1032J	A-12
426	A-39	774034	B-92	2007B	A-33	30-1033	A-12
427	A-39	774035	B-92	2011S	A-33	30-1033J	A-12



NUMERICAL INDEX

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<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
30-1034	A-12	30-192	A-5	30-3396	A-16	30-452	A-5
30-1034J	A-12	30-2091	A-10	30-3399	A-16	30-452J	A-5
30-1039	A-12	30-210	A-33	30-340	A-6	30-454	A-5
30-1039J	A-12	30-211	A-33	30-3402	A-16	30-481	E-8
30-103X	A-14	30-222	A-33	30-3404	A-16	30-482	E-8
30-1042	A-12	30-2255	A-14	30-341	A-6	30-483	E-8
30-1042J	A-12	30-2257	A-14	30-3410	A-16	30-496	E-11
30-1066	A-7	30-244J	A-6	30-3412	A-16	30-500	E-8
30-1160	A-7	30-245	A-32	30-3413	A-16	30-502	E-8
30-1161	A-7	30-249	A-32	30-341J	A-6	30-503	E-8
30-1162	A-7	30-251	A-4	30-342	A-6	30-506	E-8
30-1163	A-7	30-252	A-4	30-3429	B-27	30-510	A-32
30-1260	A-7	30-253	A-4	30-3430	B-26	30-511	A-32
30-1261J	A-7	30-259	A-4	30-3470	A-17	30-512	A-32
30-1262J	A-7	30-265	A-8	30-3471	A-17	30-515	A-32
30-1263J	A-7	30-271	A-4	30-3480	A-16	30-517	A-32
30-1264	A-7	30-272	A-4	30-3496	A-16	30-521	E-8
30-1342S	A-12	30-273	A-4	30-3498	A-16	30-522	E-8
30-1360	A-7	30-274	A-4	30-352J	A-14	30-541	A-6
30-1361	A-7	30-276	A-4	30-353XJ	A-14	30-551	A-5
30-1362	A-7	30-292	A-5	30-3570	A-17	30-552	A-5
30-1363	A-7	30-310	A-33	30-3571	A-17	30-554	A-5
30-1364	A-7	30-311	A-33	30-3580	A-16	30-556	E-8
30-144	A-6	30-3183	A-16	30-3594	A-17	30-559	E-8
30-148	A-32	30-3184	A-16	30-360Y	A-8	30-560	E-8
30-151	A-4	30-3194	A-17	30-3627	A-4	30-572	E-8
30-152	A-4	30-3201	A-16	30-3628	A-4	30-573	E-8
30-153	A-4	30-322	A-33	30-3629	A-4	30-576	E-8
30-160Y	A-8	30-3284	A-16	30-365	A-8	30-577	E-8
30-1632	A-12	30-3285	A-16	30-372	A-14	30-578	E-8
30-1633	A-12	30-3286	A-16	30-382J	A-14	30-579	E-8
30-1634	A-12	30-3287	A-16	30-383X	A-14	30-580	E-8
30-1639	A-12	30-3288	A-16	30-383XJ	A-14	30-581	E-8
30-1642	A-12	30-3289	A-16	30-410	A-32	30-582	E-8
30-164Y	A-8	30-330	B-40	30-411	A-32	30-586	E-8
30-165	A-8	30-331	B-40	30-412	A-32	30-587	E-8
30-171	A-4	30-3310	A-16	30-429	B-27	30-591	E-8
30-172	A-4	30-3311	A-16	30-430	B-26	30-593	E-8
30-173	A-4	30-332	B-40	30-433	B-23	30-594	E-8
30-174	A-4	30-333	B-40	30-441J	A-6	30-599	E-8
30-176	A-4	30-3385	A-16	30-445	A-32	30-6064	A-7
30-187	A-12	30-3390	A-16	30-447	A-32	30-610	A-32
30-188	A-12	30-3392	A-16	30-451	A-5	30-6162	A-7
30-190	A-12	30-3394	A-16	30-451J	A-5	30-640J	A-6

INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
30-641	A-6	30-C1216N	A-20	30-S1222N	A-21	31-141	B-5
30-642	A-6	30-C1216P	A-21	30-S2212	A-20	31-144	B-5
30-644J	A-6	30-C1222	A-21	30-S2212D	A-22	31-148	B-6
30-645	A-32	30-C1222N	A-21	30-S2212N	A-20	31-150	B-5
30-648	A-32	30-C1226	A-21	30-S2212T	A-20	31-152	B-5
30-649	A-32	30-C1226N	A-21	30-S2222	A-21	31-155	B-5
30-651	A-5	30-C1616	A-20	30-S2222D	A-22	31-156	B-6
30-651J	A-5	30-C1616D	A-20	30-S2222N	A-21	31-158	B-6
30-652	A-5	30-C1616N	A-20	30-S2222P	A-22	31-159	B-6
30-652J	A-5	30-C1616P	A-21	31-004	B-4	31-160	B-5
30-654	A-5	30-C1622	A-21	31-010	B-4	31-162	B-5
30-673	A-4	30-C1622N	A-21	31-012	B-4	31-164	B-6
30-674	A-4	30-C1626	A-21	31-013	B-4	31-165	B-5
30-682	A-14	30-C1626N	A-21	31-033	B-4	31-166	B-6
30-682L	A-14	30-C2012	A-20	31-035	B-4	31-186	B-5
30-683	A-14	30-C2012N	A-20	31-036	B-4	31-187	B-5
30-687	A-12	30-C2012T	A-20	31-038	B-4	31-189	B-5
30-688	A-12	30-C2016	A-20	31-050	B-4	31-190	B-5
30-690	A-12	30-C2016N	A-20	31-051	B-4	31-200	B-4
30-696	E-10	30-C2016T	A-20	31-052	B-4	31-201	B-4
30-765	A-8	30-C2022	A-21	31-055	B-4	31-202	B-4
30-803	A-4	30-C2022N	A-21	31-056	B-4	31-203	B-7
30-840	A-6	30-C2026	A-21	31-057	B-4	31-207	B-5
30-841	A-6	30-C2026N	A-21	31-058	B-4	31-208	B-5
30-842	A-6	30-C2216	A-20	31-059	B-4	31-2128	B-4
30-851	A-5	30-C2216N	A-20	31-060	B-5	31-2143	B-10
30-852	A-5	30-C2216T	A-20	31-061	B-5	31-276	B-11
30-871	A-4	30-C2222	A-21	31-062	B-5	31-277	B-11
30-872	A-4	30-C2222N	A-21	31-063	B-5	31-278	B-11
30-873	A-4	30-C2226	A-21	31-064	B-5	31-291	B-11
30-874	A-4	30-C2226N	A-21	31-065	B-5	31-295	B-11
30-876	A-4	30-C2616	A-20	31-066	B-4	31-298	B-11
30-902	A-6	30-C2616N	A-20	31-067	B-4	31-2982*	B-4
30-9429	B-53	30-C2616T	A-20	31-074	B-4	31-314	B-13
30-9430	B-53	30-C2626	A-21	31-085	B-6	31-315	B-13
30-944	A-6	30-C2626N	A-21	31-086	B-4	31-322	B-15
30-992	A-5	30-HC2	A-22	31-087	B-4	31-323	B-15
30-B2216	A-20	30-HC6	A-22	31-088	B-4	31-324	B-15
30-C1212	A-20	30-HS2	A-22	31-090	B-5	31-325	B-15
30-C1212D	A-20	30-S1212	A-20	31-091	B-5	31-326	B-15
30-C1212N	A-20	30-S1212D	A-20	31-092	B-5	31-327	B-15
30-C1212P	A-21	30-S1212N	A-20	31-093	B-5	31-338	B-13
30-C1216	A-20	30-S1212P	A-21	31-094	B-6	31-340	B-13
30-C1216D	A-20	30-S1222	A-21	31-096	B-5	31-344	B-13



NUMERICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
31-347	B-14	31-644	B-7	34-002	B-55	35-146	B-32
31-348	B-13	31-647	B-7	34-003	B-55	35-147	B-32
31-351	B-9	31-648	B-7	34-012	B-55	35-150	B-42
31-355	B-9	31-651	B-7	34-015	B-55	35-151	B-42
31-358	B-9	31-652	B-7	34-016	B-55	35-152	B-42
31-365	B-9	31-839	B-14	35-001	B-30	35-154	B-43
31-371	B-10	31-840	B-14	35-008	B-27	35-156	B-43
31-375	B-10	31-841	B-14	35-019	B-31	35-158	B-43
31-378	B-10	31-844	B-14	35-020	B-31	35-161	B-43
31-381	B-10	31-845	B-14	35-021	B-31	35-164	B-43
31-385	B-10	31-846	B-14	35-028	B-26	35-166	B-43
31-3855	B-10	31-849	B-14	35-029	B-26	35-168	B-43
31-388	B-10	31-850	B-14	35-031	B-35	35-183	B-42
31-391	B-9	31-851	B-14	35-031B	B-35	35-184	B-42
31-395	B-9	31-853	B-14	35-032	B-35	35-186	B-42
31-398	B-9	31-854	B-14	35-032B	B-35	35-187	B-32
31-421	B-11	31-855	B-14	35-033	B-35	35-188	B-42
31-425	B-11	31-856	B-14	35-033B	B-35	35-189	B-32
31-435	B-11	31-857	B-14	35-036	B-26	35-190	B-42
31-466	B-15	33-396	E-11	35-038	B-26	35-191	B-42
31-467	B-15	33-410	E-17	35-042	E-9	35-192	B-32
31-468	B-15	33-505	E-18	35-046	E-9	35-193	B-42
31-469	B-15	33-506	E-19	35-052	B-27	35-194	B-42
31-470	B-15	33-620	E-18	35-053	B-35	35-195	B-42
31-471	B-15	33-622	E-17	35-056	B-35	35-196	B-42
31-472	B-15	33-632	E-6	35-057	B-35	35-200	B-43
31-473	B-15	33-639	E-18	35-075	B-39	35-202	B-43
31-475	B-15	33-652	E-19	35-076	B-36	35-203	B-43
31-476	B-15	33-700	E-11, E-19	35-077	B-36	35-204	B-43
31-477	B-15	33-704	E-18	35-078	B-36	35-205	B-30
31-479	B-15	33-706	E-17	35-083	B-39	35-210	B-30
31-480	B-15	33-719	E-11	35-085	B-35	35-219	B-44
31-481	B-15	33-750	E-19	35-088	E-15	35-238	B-31
31-541	B-7	33-793	E-17	35-093	E-15	35-242	B-31
31-542	B-5	33-856	E-4	35-096	B-39	35-260	B-33
31-544	B-5	33-864	E-5	35-098	B-39	35-261	B-33
31-552	B-5	33-866	E-4	35-100	B-30	35-262	B-33
31-554	B-5	33-892	E-3	35-102	B-30	35-263	B-33
31-601	B-12	33-892-BP	E-3	35-1091	E-15	35-264	B-33
31-605	B-12	33-927	E-20	35-1298	B-41	35-271	B-33
31-611	B-7	33-928	E-20	35-1299	B-44	35-272	B-33
31-612	B-7	33-929	E-20	35-1300	B-41	35-273	B-33
31-631	B-7	33-931	E-20	35-1301	B-41	35-274	B-33
31-643	B-7	34-001	B-55	35-1302	B-44	35-275	B-33

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
35-285	B-32	35-361	B-66	35-407	E-10	35-694	B-42
35-286	B-32	35-362	B-66	35-410	B-59	35-695	B-42
35-287	B-32	35-363	B-66	35-412	B-39	35-696	B-42
35-290	B-45	35-364	B-66	35-418	B-59	35-726	B-74
35-291	B-45	35-365	B-66	35-427	B-59	35-727	B-74
35-292	B-45	35-366	B-66	35-430	B-27	35-728	B-74
35-293	B-45	35-367	B-66	35-440	B-27	35-729	B-74
35-294	B-45	35-368	B-66	35-441	B-59	35-730	B-74
35-295	B-45	35-369	B-66	35-462	B-59	35-731	B-74
35-296	B-45	35-370	B-66	35-474	B-58	35-732	B-74
35-297	B-41	35-371	B-66	35-478	E-10	35-781	B-29
35-298	B-41	35-372	B-66	35-479	E-10	35-781-1	B-29
35-299	B-45	35-373	B-66	35-485	E-10	35-782	B-29
35-300	B-32	35-374	B-66	35-495	E-10	35-784BLK	B-58
35-301	B-32	35-375	B-66	35-497	E-10	35-790	B-61
35-3028	B-26	35-376	B-66	35-505	B-59	35-794	B-62
35-3029	B-26	35-377	B-66	35-511	B-64	35-800	B-61
35-3038	B-26	35-378	B-66	35-512	B-64	35-808	B-61
35-3052	B-27	35-379	B-66	35-513	B-64	35-809	B-60
35-311	B-57	35-380	B-66	35-514	B-64	35-810	B-73
35-316	B-58	35-381	B-66	35-515	B-64	35-811	B-73
35-325	B-57	35-382	B-66	35-516	B-64	35-812	B-73
35-338	B-58	35-383	B-66	35-517	B-64	35-813	B-73
35-340	B-66	35-384	B-66	35-518	B-67	35-814	B-73
35-341	B-66	35-385	B-66	35-520	B-64	35-815	B-73
35-342	B-66	35-386	B-66	35-521	B-64	35-816	B-73
35-343	B-66	35-387	B-66	35-522	B-64	35-817	B-73
35-3430	B-27	35-388	B-66	35-523	B-64	35-818	B-73
35-344	B-66	35-389	B-66	35-524	B-64	35-819	B-71, B-73
35-345	B-66	35-390	B-66	35-535	B-60	35-820	B-73
35-346	B-66	35-391	B-68	35-536	B-68	35-821	B-73
35-347	B-66	35-392	B-68	35-537	B-68	35-822	B-73
35-348	B-66	35-393	B-68	35-538	B-68	35-823	B-73
35-349	B-66	35-394	B-68	35-5792	B-62	35-824	B-73
35-350	B-66	35-396	B-67	35-5799	B-62	35-825	B-73
35-351	B-66	35-397	B-67	35-5805	B-62	35-826	B-73
35-352	B-66	35-398	B-67	35-598	B-69	35-827	B-73
35-353	B-66	35-399	B-66	35-599	B-69	35-828	B-73
35-355	B-66	35-400	B-67	35-655	B-60	35-829	B-73
35-356	B-66	35-401	B-67	35-688	B-38	35-862	B-72
35-357	B-66	35-402	B-60	35-690	B-42	35-864	B-72
35-358	B-66	35-403	B-60	35-691	B-42	35-866	B-72
35-359	B-66	35-404	B-44	35-692	B-42	35-868	B-72
35-360	B-66	35-406	B-44	35-693	B-42	35-870	B-70



NUMERICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
35-871	B-70	35-9352	B-54	36-075	B-75	36-308	B-65
35-872	B-70	35-9353	B-54	36-085	B-75	36-309	B-65
35-892	B-74	35-940	B-40	36-086	B-75	36-310	B-65
35-893	B-74	35-941	B-40	36-087	B-75	36-311	B-65
35-896	B-74	35-942	B-40	36-088	B-75	36-312	B-65
35-897	B-74	35-943	B-40	36-090	B-75	36-313	B-65
35-898	B-74	35-9430	B-54	36-095	B-75	36-314	B-65
35-899	B-74	35-950	B-57	36-096	B-75	36-315	B-65
35-9029	B-53	35-950BLK	B-57	36-240	B-45	36-316	B-65
35-9038	B-53	35-965	B-58	36-241	B-45	36-317	B-65
35-9052	B-54	35-965BLK	B-58	36-242	B-45	36-318	B-65
35-908	B-38	35-969	B-57	36-243	B-45	36-350	B-68
35-910	B-40	35-9690	B-53	36-244	B-45	36-351	B-68
35-9100	B-51	35-9691	B-53	36-245	B-45	36-352	B-68
35-9101	B-51	35-9693	B-53	36-246	B-45	36-353	B-68
35-9102	B-51	35-9695	B-53	36-248	B-45	36-354	B-68
35-9103	B-52	35-971	B-74	36-249	B-45	36-355	B-68
35-9104	B-52	35-972	B-74	36-250	B-71	36-356	B-68
35-9108	B-52	35-975	B-57	36-251	B-71	36-357	B-68
35-911	B-39	35-975BLK	B-57	36-252	B-71	36-358	B-68
35-912	B-39	35-976	B-74	36-253	B-71	36-359	B-68
35-913	B-39	35-977	B-74	36-254	B-71	36-360	B-68
35-914	B-39	35-978	B-74	36-255	B-71	36-361	B-68
35-9148	B-53	35-979	B-74	36-256	B-71	36-362	B-68
35-9149	B-53	35-988	B-38	36-257	B-71	36-363	B-68
35-915	B-39	35-995	B-58	36-258	B-71	36-364	B-68
35-9169	B-53	36-043	B-76	36-259	B-71	36-365	B-68
35-9170	B-53	36-044	B-76	36-260	B-71	36-366	B-68
35-9172	B-53	36-046	B-76	36-261	B-71	36-367	B-68
35-922	B-39	36-048	B-76	36-262	B-71	36-368	B-68
35-923	B-39	36-054	B-75	36-266	B-72	36-413	B-70
35-926	B-40	36-055	B-75	36-269	B-72	36-415	B-70
35-927	B-40	36-056	B-76	36-270	B-71	36-417	B-70
35-9293	B-52	36-057	B-75	36-271	B-71	36-419	B-70
35-9294	B-52	36-058	B-75	36-272	B-72	36-421	B-70
35-9305	B-52	36-059	B-75	36-273	B-71	36-422	B-70
35-932	B-44	36-060	B-75	36-300	B-65	36-423	B-70
35-933	B-44	36-065	B-75	36-301	B-65	36-432	B-70
35-933STD	B-44	36-066	B-75	36-302	B-65	38-500	B-30
35-933TP	B-44	36-067	B-75	36-303	B-65	38-500BR	B-30
35-934	B-44	36-070	B-76	36-304	B-65	41-697	B-88
35-9340	B-54	36-071	B-76	36-305	B-65	41-990	B-78
35-9350	B-54	36-072	B-76	36-306	B-65	41-995	B-78
35-9351	B-54	36-073	B-76	36-307	B-65	42-001	B-114

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
42-002	B-114	44-353	B-114	44-847	B-111	45-091	C-5
42-003	B-114	44-355	B-114	44-848	B-112	45-092	C-5
42-012	B-114	44-358	B-114	44-849	B-112	45-092-341	C-5
42-051	B-114	44-364	B-114	44-862	B-113	45-093	C-5
42-052	B-114	44-410	B-114	44-863	B-113	45-095	C-6
42-101	B-115	44-753	B-88	44-865	B-113	45-096	C-5
42-102	B-115	44-764	B-108	44-877	B-113	45-097	C-5
42-103	B-115	44-768	B-108	44-878	B-113	45-098	C-5
42-104	B-115	44-769	B-108	44-880	B-113	45-098-341	C-5
42-151	B-115	44-772	B-110	44-881	B-113	45-099	C-5
42-152	B-115	44-778	B-106	44-890	B-113	45-101	B-21
42-201	B-115	44-782	B-109	44-892	B-113	45-111	E-14
42-251	B-115	44-783	B-107	44-892BK	B-113	45-118RS	B-22
42-252	B-115	44-785	B-107	44-893	B-113	45-120	B-19
42-301	B-88	44-786	B-107	44-894	B-113	45-120-341	B-19
42-399	B-88	44-789	B-110	44-895	B-113	45-121	B-19
44-101	B-87	44-790	B-112	44-896	B-113	45-123	B-22
44-102	B-87	44-791	B-112	44-898	B-112	45-124	B-19
44-103	B-87	44-792	B-109	44-900	B-111	45-125	B-19
44-104	B-87	44-793	B-109	44-901	B-111	45-125-341	B-19
44-105	B-87	44-800	B-112	44-906	B-111	45-128	B-23
44-106	B-87	44-801	B-112	44-907	B-111	45-129	B-23
44-107	B-87	44-804	B-104	44-912	B-111	45-144	E-14
44-108	B-87	44-806	B-106	44-914	B-111	45-162	E-13
44-109	B-87	44-807	B-107	44-916	B-111	45-163	E-13
44-110	B-87	44-808	B-110	44-918	B-111	45-164	E-13
44-111	B-87	44-809	B-107	44-956	B-108	45-165	E-13
44-148	B-87	44-810	B-107	44-957	B-108	45-167	E-13
44-151	B-88	44-817	B-110	44-969	B-104	45-2019	C-6
44-152	B-88	44-818	B-109	44-970	B-104	45-235	B-22
44-154	B-87	44-819	B-109	44-971	B-105	45-247	B-20
44-1791	B-112	44-820	B-111	44-972	B-105	45-248	B-20
44-1807	B-107	44-821	B-111	44-973	B-104	45-249	B-20
44-1809	B-107	44-822	B-108	44-974	B-106	45-2530	C-11
44-1810	B-107	44-823	B-107	44-975	B-106	45-262	D-6, E-14
44-1830	B-112	44-824	B-110	44-979	B-105	45-264	C-6
44-1833	B-112	44-825	B-110	44-990	B-116	45-265	C-6, E-14
44-289	B-114	44-829	B-110	44-991	B-116	45-282	C-6, E-14
44-292	B-114	44-830	B-112	44-992	B-116	45-290	C-5
44-295	B-114	44-832	B-112	45-025	B-21	45-292	C-5
44-296	B-114	44-833	B-112	45-074	B-22, E-15	45-292-341	C-5
44-298	B-114	44-841	B-113	45-089	C-6	45-321	E-13
44-299	B-114	44-843	B-112	45-090	C-5	45-344	E-21
44-314	B-114	44-846	B-111	45-090-341	C-5	45-352	E-20



NUMERICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
45-357	E-21	45-892	C-7, C-8	46-384	B-99	61-465	D-17
45-358	E-21	45-893	C-7, C-8	46-400	B-97	61-486	D-12
45-359	E-21	45-894	C-7, C-8	46-401	B-97	61-501	D-14
45-415	B-20	45-895	C-7, C-8	46-402	B-97	61-520	D-16
45-416	B-20	45-906	C-11	46-403	B-97	61-521	D-16
45-417	B-20	45-9120	B-21, B-54	46-404	B-97	61-534	D-11
45-418	B-20	45-915	B-19	46-405	B-97	61-565	D-5, D-17
45-425-341	B-20	45-918	B-19	46-410	B-97	61-686	D-16
45-520	E-14	46-007	B-97	46-600	B-98	61-704	D-8
45-522	E-14	46-202	B-101	46-601	B-98	61-744	D-8
45-524	E-14	46-203	B-101	46-602	B-98	61-746	D-8
45-526	E-14	46-204	B-101	46-603	B-98	61-763	D-7
45-600	C-11	46-310	B-98	46-604	B-98	61-765	D-7
45-605	E-13	46-312	B-98	46-605	B-98	61-773	D-7
45-6051	E-13	46-313	B-98	46-606	B-98	61-775	D-7
45-6052	E-13	46-315	B-98	46-607	B-98	61-795	D-15
45-615	B-20	46-316	B-98	46-608	B-98	61-796	D-15
45-618	B-20	46-318	B-98	46-609	B-98	61-797	D-15
45-621	B-20	46-319	B-98	46-610	B-98	61-920	D-15
45-631	C-7, C-8	46-321	B-98	46-941	B-102	61-955	D-4
45-632	C-7, C-8	46-322	B-98	46-950	B-102	61-957	D-4
45-633	C-7, C-8	46-324	B-98	46-951	B-102	61-959	D-4
45-634	C-7, C-8	46-325	B-98	46-952	B-102	62-1202	E-5
45-635	C-7, C-8	46-327	B-98	46-953	B-102	62-140	E-5
45-636	C-7, C-8	46-328	B-98	46-954	B-102	62-160	E-5
45-637	C-7, C-8	46-330	B-98	46-955	B-102	62-164	E-5
45-638	C-7, C-8	46-343	B-100	46-956	B-102	62-200	E-5
45-639	C-7, C-8	46-344	B-100	61-025	D-14	74-001	B-17
45-640	C-7, C-8	46-346	B-100	61-035	D-14	74-002	B-17
45-641	C-7, C-8	46-347	B-100	61-051	D-14	74-003	B-17
45-649	B-20, B-23	46-348	B-100	61-063	D-14	74-006	B-17
45-650	C-11	46-350	B-100	61-065	D-13	74-019	B-17
45-671	C-5	46-351	B-100	61-076	D-13	74-020	B-17
45-671-341	C-6	46-352	B-100	61-092	D-13	74-021	B-17
45-672	C-5	46-354	B-100	61-096	D-13	74-026	B-17
45-672-341	C-6	46-356	B-100	61-164	D-11	74-027	B-17
45-673	C-5	46-357	B-100	61-175	D-11, D-17	74-028	B-17
45-674	C-5	46-358	B-100	61-176	D-11, D-17	74-031	B-17
45-715	B-19	46-369	B-100	61-182	D-11, D-17	74-032	B-17
45-716	B-19	46-371	B-100	61-183	D-11, D-17	74-034	B-17
45-718	B-19	46-372	B-100	61-340	D-12	74-037	B-17
45-778	B-23	46-381	B-99	61-342	D-12	74-046	B-17
45-890	C-7, C-8	46-382	B-99	61-445	D-19	74-047	B-17
45-891	C-7, C-8	46-383	B-99	61-461	D-17	774004BK	B-91

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
774015BK.....	B-89	78-0208-5	B-49	82-002	B-128	83-6161	A-28
774040BK.....	B-91	78-0209	B-47	82-003	B-128	83-6171	A-28
774049BK.....	B-93	78-0210	B-47	82-004	B-128	83-6211	A-28
774089BK.....	B-89	78-0211	B-47	82-005	B-128	83-6221	A-28
774111BK.....	B-89	78-0212	B-47	82-006	B-128	83-6231	A-28
776112BK.....	B-95	78-0213	B-47	83-001	B-29	83-7011	A-27
776212BK.....	B-95	78-0213-25	B-47	83-0131	A-26	83-7021	A-27
777121BK.....	B-94	78-0214	B-47	83-0141	A-26	83-7031	A-27
777212BK.....	B-95	78-0214-25	B-47	83-0221	A-26	83-7051	A-27
777321BK.....	B-94	78-0215-25	B-47	83-0231	A-26	83-7061	A-27
777331BK.....	B-94	78-0216-25	B-47	83-0241	A-26	83-7071	A-27
78-0100	B-47	78-0217	B-49	83-0331	A-26	83-7081	A-27
78-0101	B-48	78-0217-25	B-49	83-0341	A-26	83-7091	A-27
78-0102	B-47	78-0218	B-49	83-0351	A-26	83-7101	A-27
78-0102-25	B-47	78-0219	B-48	83-0421	A-26	83-7111	A-27
78-0103	B-47	78-0219-25	B-48	83-0431	A-26	83-7121	A-27
78-0104-25	B-47	78-0220	B-48	83-0441	A-26	83-7131	A-27
78-0105	B-47	78-0220-25	B-48	83-0451	A-26	83-7151	A-27
78-0105-25	B-47	78-0221	B-48	83-0511	A-26	83-7161	A-27
78-0106	B-47	78-0221-25	B-48	83-0521	A-26	83-7171	A-27
78-0106-25	B-47	78-0222	B-48	83-0531	A-26	83-7201	A-27
78-0107	B-49	78-0222-25	B-48	83-0541	A-26	83-7211	A-27
78-0108	B-49	78-0223	B-48	83-0611	A-26	83-7221	A-27
78-0111	B-48	78-0224	B-48	83-0621	A-26	83-7231	A-27
78-0111-10	B-48	78-0224-25	B-48	83-0631	A-26	83-8001	A-29
78-0112	B-48	78-0225	B-48	83-2121	A-26	83-8011	A-29
78-0113	B-48	78-0225-25	B-48	83-2131	A-26	83-8101	A-29
78-0113-10	B-48	78-0226	B-47	83-2141	A-26	83-8111	A-29
78-0114	B-48	78-0227	B-47	83-2151	A-26	83-9001	A-31
78-0114-10	B-48	78-0228	B-47	83-2221	A-26	83-9011	A-31
78-0200	B-48	78-0229	B-47	83-2231	A-26	83-9021	A-31
78-0200-25	B-48	78-0230	B-48	83-2241	A-26	83-9031	A-31
78-0201	B-48	78-0231	B-48	83-2251	A-26	83-9041	A-31
78-0201-25	B-48	78-0232	B-48	83-2331	A-26	83-9051	A-31
78-0202	B-48	78-0233	B-48	83-2341	A-26	83-9071	A-31
78-0202-25	B-48	80-012	B-127	83-2351	A-26	83-9081	A-31
78-0203	B-48	80-033	B-127	83-2361	A-26	83-9091	A-31
78-0203-25	B-48	80-075	B-127	83-2371	A-26	83-9401	A-30
78-0204	B-48	80-255	B-127	83-3261	A-31	83-9411	A-28
78-0205	B-48	80-265	B-127	83-3271	A-31	83-9421	A-28
78-0205-25	B-48	80-454	B-127	83-3281	A-31	83-9441	A-28
78-0206	B-48	80-461	B-127	83-6111	A-28	83-9451	A-28
78-0206-25	B-48	80-475	B-127	83-6121	A-28	83-9471	A-28
78-0207	B-49	82-001	B-128	83-6131	A-28	83-9511	A-28



NUMERICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
83-9521	A-28	84-9771	A-29	89-041	E-7	89-504	A-35
83-9541	A-28	84-9781	A-29	89-042	E-7	89-5047	E-7
83-9551	A-28	84-9791	A-29	89-043	E-7	89-5048	E-7
83-9571	A-28	84-9931	A-29	89-044	E-7	89-5049	E-7
83-9581	A-28	85-017	E-9	89-045	E-7	89-505	A-35
83-9591	A-28	85-031	E-10	89-047	E-7	89-5050	E-7
83-9601	A-28	85-035	E-9	89-048	E-7	89-506	A-35
83-9611	A-30	85-036	E-9	89-049	E-7	89-507	A-35
83-9621	A-30	85-037	E-9	89-050	E-7	89-508	A-35
83-9631	A-30	85-038	E-10	89-1047	E-7	89-509	A-35
83-9771	A-29	85-039	E-9	89-1211	E-7	89-512	A-35
83-9781	A-29	85-053	E-9	89-1544	E-7	89-513	A-35
83-9801	A-30	85-068	E-7	89-202	A-35	89-525	A-36
83-9911	A-29	85-070	E-10	89-203	A-35	89-570	E-7
83-9921	A-29	85-132	E-16	89-204	A-35	89-580	E-7
83-9971	A-29	85-133	E-16	89-206	A-35	89-608	A-35
83-9981	A-29	85-134	E-16	89-208	A-35	89-610	A-35
83-9991	A-29	85-138	E-16	89-210	A-35	89-612	A-35
84-018	E-9	85-147	E-12	89-211	E-7	89-614	A-35
84-0241	A-26	85-168	E-7	89-212	A-35	90-052	B-84
84-0341	A-26	85-178	E-7	89-224	A-36	90-063	B-69
84-0421	A-26	85-311	E-16	89-229	A-36	90-067	B-69
84-2241	A-26	85-332	E-16	89-230	A-36	90-070	B-69
84-2341	A-26	85-333	E-16	89-302	A-35	90-073	B-69
84-6171	A-28	85-334	E-16	89-304	A-35	90-082	B-69
84-7111	A-27	85-339	E-10	89-306	A-35	90-085	B-69
84-7161	A-27	85-340	E-10	89-308	A-35	90-088	B-69
84-7171	A-27	85-344	E-12	89-310	A-35	90-091	B-69
84-7221	A-27	85-345	E-12	89-312	A-35	90-170	B-69
84-9011	A-31	85-346	E-12	89-314	A-36	90-173	B-69
84-9021	A-31	85-366	E-12	89-323	A-36	90-176	B-69
84-9031	A-31	85-379	E-12	89-324	A-36	92-212	E-7
84-9081	A-31	85-380	E-12	89-330	A-36	92-610	E-7
84-9091	A-31	85-396	E-12	89-402	A-35	92-611	E-7
84-9281	A-30	85-900	E-11	89-404	A-35	92-650	E-7
84-9291	A-30	85-925	E-11	89-406	A-35	92-651	E-7
84-9301	A-30	85-936	E-10	89-408	A-35	92-655	E-7
84-9351	A-31	85-937	E-10	89-410	A-35	92-656	E-7
84-9361	A-31	85-950	E-11	89-412	A-35	92-659	E-7
84-9371	A-31	85-960	E-11	89-414	A-36	92-660	E-7
84-9481	A-28	86-396	E-12	89-417	A-36	92-690	E-7
84-9501	A-28	86-925	E-11	89-423	A-36	92-691	E-7
84-9581	A-28	88-843	B-29	89-424	A-36	92-692	E-7
84-9601	A-28	89-040	E-7	89-430	A-36	92-693	E-7

Item	Page	Item	Page	Item	Page	Item	Page
92-694	E-7	B2-500JR	A-9	BTC500-1/0	A-42	IT2M-C0	B-80
92-695	E-7	B2-B	A-9	BTC500-14	A-42	IT2M-M	B-80
92-704	E-7	B2-SK	A-9	BTC500-4	A-42	IT2S-C	B-79, B-81
92-705	E-7	B4-1	A-9	BTC750-250	A-42	IT2S-C0	B-79, B-81
B-11-50-0-C	B-82	B4-B	A-9	C-290	D-19	IT2S-C35	B-79
B-11-50-0-D	B-82	BCS1-1	B-86	C-90	D-19	IT2S-M	B-79, B-81
B-11-50-35-C	B-82	BCS1-5	B-86	CR-959	D-5	IT2S-M0	B-79, B-81
B-11-50-9-C	B-82	BCS1-5M	B-86	F-956	D-5	IT2SID-C	B-78
B-11-50-9-D	B-82	BCS1-JR	B-86	H-2909	C-6	IT2SMB-C	B-83
B-14-120-0-L	B-82	BCS2-1	B-86	H-3400	B-36	IT2SMB-C0	B-83
B-14-120-9-L	B-82	BCS2-5	B-86	H-3507	B-36	IT2SMH-C	B-79, B-82
B-14-50-0-C	B-82	BCS2-5M	B-86	IC-958	D-5	IT2SMH-C0	B-79, B-82
B-14-50-0-D	B-82	BCS2-JR	B-86	IT1_5I-C	B-80	IT2SMH-M	B-79, B-82
B-14-50-9-C	B-82	BGR-1	A-9	IT1_5I-C0	B-80	IT375CCL2-C	B-79
B-14-50-9-D	B-82	BGR-B	A-9	IT1_5I-M	B-80	IT375CCL2-C0	B-79
B-14MT-9-C	B-82	BMP-1000-9-C	B-82	IT1_5I-M0	B-80	IT3I-C	B-80
B-24-175-0-L	B-82	BMP-750-9-C	B-82	IT1_5IMH-C	B-82	IT3I-C0	B-80
B-24-175-9-L	B-82	BPS2-1	B-85	IT1_5IMH-C0	B-82	IT3S-C	B-79, B-81
B-36-175-9-L	B-82	BPS2-5	B-85	IT1_5M-C	B-80	IT3S-C0	B-79, B-81
B-4-18-0-C	B-82	BPS2-50	B-85	IT1_5M-C0	B-80	IT3S-C35	B-79
B-4-18-9-C	B-82	BPS2-5M	B-85	IT1000CCL2-C	B-79	IT3S-D	B-79, B-81
B-48-175-9-L	B-82	BPS2-JRL	B-85	IT1000MP-C	B-83	IT3S-D0	B-79, B-81
B-6-40-0-C	B-82	BPS2/2-25	B-85	IT1000MP-C0	B-83	IT3SMH-C	B-82
B-6-40-9-C	B-82	BPS2/2-50	B-85	IT11H-L	B-81	IT3SMH-C0	B-82
B-6-40-9-M	B-82	BPS2B-JR	B-85	IT11H-L0	B-81	IT4I-C	B-80
B-8-50-0-C	B-82	BPS3-1	B-85	IT125CCL-C	B-79	IT4I-C0	B-80
B-8-50-0-M	B-82	BPS3-2	B-85	IT14H-L	B-81	IT4LH-L	B-81
B-8-50-35-C	B-82	BPS3-JRL	B-85	IT14H-L0	B-81	IT4LH-L0	B-81
B-8-50-9-C	B-82	BSER2-25	B-86	IT1LPMB-C	B-83	IT4LHMH-C	B-82
B-8-50-9-M	B-82	BSER4/0-5	B-86	IT1M-C	B-80	IT4LHMH-C0	B-82
B-8-50MT-9-C	B-82	BSER6-50	B-86	IT1M-C0	B-80	IT4S-C	B-79, B-81
B-8MT-0-C	B-82	BSEU2-25	B-86	IT1M-M	B-80	IT4S-C0	B-79, B-81
B1-1	A-9	BSEU6-50	B-86	IT1MID-C	B-78	IT4S-D	B-79, B-81
B1-250JR	A-9	BPSTCKR-15	B-85	IT1SMB-C	B-83	IT4S-D0	B-79, B-81
B1-500JR	A-9	BT2-1	A-9	IT1SMB-C0	B-83	IT4SMH-C	B-82
B1-B	A-9	BT2-500JR	A-9	IT250CCL-C	B-79	IT500CCL2-C	B-79
B1-SK	A-9	BT2-SK	A-9	IT250CCL-C0	B-79	IT5LH-L	B-81
B102	A-40	BTC1/0-10	A-42	IT2I-C	B-80	IT5LH-L0	B-81
B104	A-40	BTC2/0-14	A-42	IT2I-C0	B-80	IT5S-C	B-81
B106	A-40	BTC250-4	A-42	IT2I-M	B-80	IT5S-C0	B-81
B108	A-40	BTC350-1/0	A-42	IT2I-M0	B-80	IT625CCL2-C	B-79
B112	A-40	BTC4/0-10	A-42	IT2LH-C	B-81	IT6EH-C0	B-81
B2-1	A-9	BTC4/0-2	A-42	IT2LH-C0	B-81	IT750CCL2-C	B-79
B2-350JR	A-9	BTC4/0-6	A-42	IT2M-C	B-80	IT750MP-C	B-83



NUMERICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>	<u>Item</u>	<u>Page</u>
IT750MP-C0	B-83	LB-1001M	C-6	LB-895	C-9	WT3-B	A-10
IT7H-L	B-81	LB-1002	C-5	LB-896	C-9	WT3-SK	A-10
IT7H-L0	B-81	LB-1002M	C-6	LB-911	C-7, C-8	WT4-1	A-10
IT7LH-L	B-81	LB-1003	C-5	LB-912	C-7, C-8	WT4-B	A-10
IT7LH-L0	B-81	LB-1004	C-5	LB-913	C-7, C-8	WT4-SK	A-10
K-2422	A-33	LB-1089	C-9	LB-914	C-7, C-8	WT41-1	A-10
K-8909	B-36	LB-1090	C-9	LB-915	C-7, C-8	WT41-500JR	A-10
K-8926	B-36	LB-1091	C-7, C-8, C-9	LB-916	C-7, C-8	WT41-B	A-10
K-8933	B-36	LB-1092	C-9	LB-917	C-7, C-8	WT41-SK	A-10
KB-0173	B-6	LB-1151	C-7, C-8	LB-918	C-7, C-8	WT51-1	A-10
KB-0456	B-36	LB-1152	C-7, C-8, E-21	LB-919	C-7, C-8	WT51-500JR	A-10
L-1953	C-6	LB-1153	C-7, C-8, E-21	LB-920	C-7, C-8	WT51-B	A-10
L-4419	C-5	LB-1154	C-7, C-8	LB-921	C-7, C-8	WT51-SK	A-10
L-4419M	C-5	LB-1155	C-6, C-7, C-8	R156001	E-3	WT52-1	A-10
L-4420	C-5	LB-1156	C-7, C-8	R156002	E-3	WT52-500JR	A-10
L-4421	C-5	LB-1184	C-9	R158000	E-4	WT52-B	A-10
L-4421M	C-5	LB-1185	C-9	R158002	E-4	WT52-SK	A-10
L-4422	C-5	LB-1186	C-9	R158003	E-4	WT54-1	A-10
L-4452	C-6	LB-1187	C-9	RC-955	D-5	WT54-B	A-10
L-4453	C-5	LB-1188	C-9	RC-959	D-4	WT6-1	A-10
L-4994	C-5	LB-1189	C-9	TC-486	D-17	WT6-B	A-10
L-5212	C-9	LB-1190	C-9	TL-102	D-18	WT6-SK	A-10
L-5215	C-9	LB-1194	C-6	TL-770	D-18		
L-5217	C-9	LB-1195	C-6, C-11	TL-796	D-15		
L-5269	C-6	LB-1421	C-5, C-6	TL-956	D-5		
L-5270	C-6, C-11	LB-1747	E-11	TLA1-956	D-5		
L-5361	C-5	LB-1748	E-14	TLA2-956	D-5		
L-5361M	C-5	LB-197	C-9	TLAC-956	D-5		
L-5616	C-9	LB-198	C-9	TLBP-956	D-5		
L-5617	C-9	LB-718	C-9	TLF-252	D-18		
L-5618	C-9	LB-719	C-9	TLGP-956	D-5		
L-5619	C-9	LB-720	C-9	TLOP-956	D-5		
L-5620	C-5, C-6, E-21	LB-721	C-9	TR-955	D-5		
L-7486	B-23	LB-722	C-9	VFF5	E-20		
L-8762	C-6	LB-727	C-9	WGR-1	A-10		
L-8763	C-5	LB-728	C-9	WGR-500JR	A-10		
L-9038	C-9	LB-729	C-9	WGR-B	A-10		
L-9039	C-9	LB-730	C-9	WGR-SK	A-10		
L-9225	E-13	LB-731	C-9	WT1-1	A-10		
L-9226	E-13	LB-740	C-6, E-14	WT1-B	A-10		
LA-2358	C-5	LB-742	C-6	WT2-1	A-10		
LA-3953	C-6, E-14	LB-743	C-6, E-14	WT2-B	A-10		
LA-4102	E-10	LB-882	C-9	WT2-SK	A-10		
LB-1001	C-5	LB-883	C-9	WT3-1	A-10		

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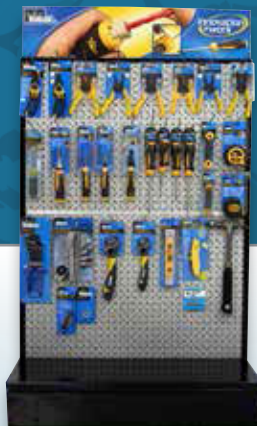
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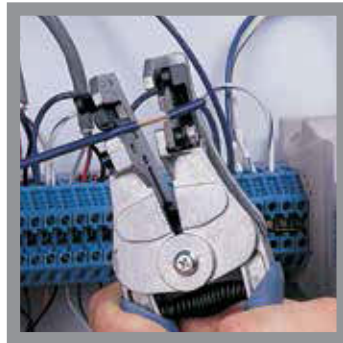
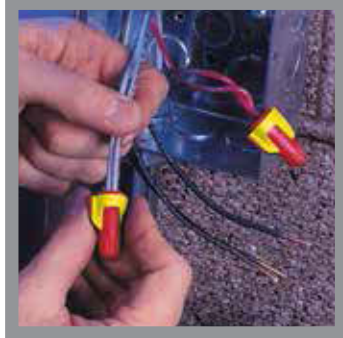
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