



IDEAL Full-Line Catalog



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



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



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

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CERTIFIED
ISO 9001:2000





ClearGlide™
Revolutionary clear
wire pulling lubricant

Term-a-Nut® Pigtail
The only twist-on connector
with a built-in lead



SureTest® Open/Closed Circuit Tracer
A new level of safety, performance and
ease-of-use for wire tracing



LANTEK® 6A
The first CAT 6A certifier
that sweeps to 500MHz



**Ground Resistance
Clamp Meter**
Tests grounding systems
without disconnecting
the ground

Zoom™ Fish Tape
The finest blend of
strength and flexibility



In-Sure™ Wire Connector
No-twist, push-in
wire connectors

**SIGNALTEK™ Cable
Performance Tester**
A full suite of active LAN testing
and diagnostic tools

Twist-a-Nut Pro™ Screwdriver
Combines professional quality blades
with an ergonomic, multi-function handle



VDV MultiMedia Cable Tester
Comprehensive testing for voice,
data and video applications

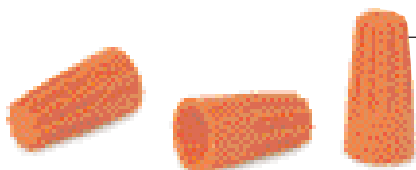
SureTest® Arc
Tests GFCIs, AFCIs and
shared neutrals for
proper operation

**WeatherProof™ and UnderGround™
Wire Connectors**
Designed specifically for damp, wet or
underground electrical connections

OmniSeal™ Compression Tool
Effortless connections for RG-6,
RG-6 Quad Shield and RG-59
compression connectors

**Combine need and ingenuity.
The result is innovation.**

Connectors designed for every application

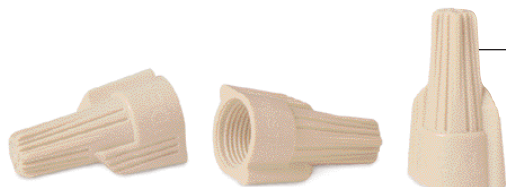


Wire-Nut®

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

Wing-Nut®

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

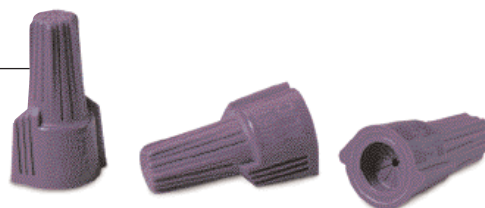


Twister®

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

Twister® Al/Cu

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

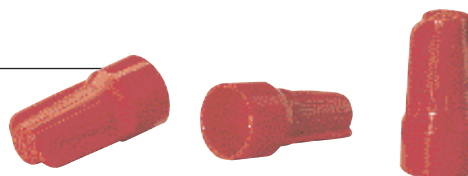


Twister® DB Plus™

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

B-CAP®

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



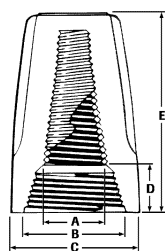
A

Wire Termination



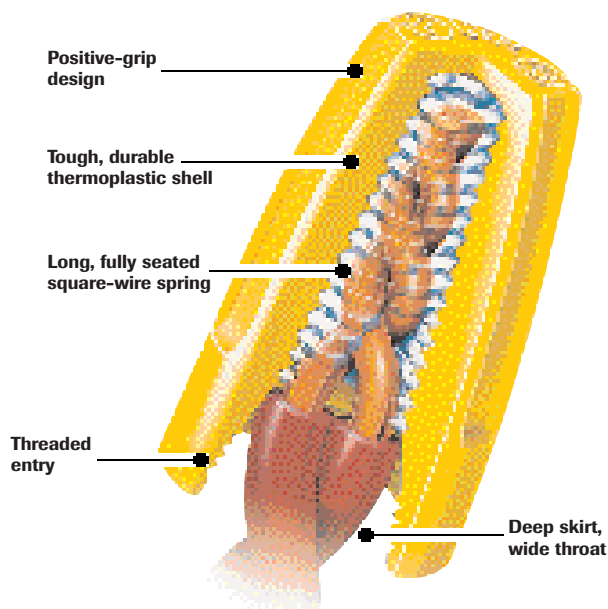
Wire-Nut® Wire Connectors

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



Dimensions (Inches/mm)

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



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 ,34mm² to 1,5mm² Min. 2-,34mm² Max. 3-1,5mm²	Box of 100	30-071
				Carton of 1,000	30-171
				Keg of 25,000 (loose pack)	30-271
				Barrel of 150,000	30-871
72B®	Blue	300V 22 to 14 AWG Min. 2 #22 – Max. 3 #16	300V ,34mm² to 2,5mm² Min. 2-,34mm² Max. 3-1,5mm²	Box of 100	30-072
				Carton of 1,000	30-172
				Keg of 10,000 (loose pack)	30-272
				Barrel of 85,000	30-872
73B®	Orange	600V* 22 to 14 AWG Min. 1 #18 & 1 #20 Max. 4 #16 & 1 #20	600V* ,34mm² to 2,5mm² Min. 1-,75mm² w/1-,50mm² Max. 4-1,5mm² w/1-,50mm²	Box of 100	30-073
				Jar of 300	30-073J
				Carton of 1,000	30-173
				Keg of 10,000 (20 bags, 500 ea.)	30-273
74B®	Yellow	600V* 18 to 12 AWG Min. 2 #18 Max. 4 #14 & 1 #18	600V* ,75mm² to 4,0mm² Min. 2-,75mm² Max. 4-2,5mm² w/1-,75mm²	Keg of 10,000 (loose pack)	30-673
				Barrel of 50,000	30-873
				Box of 100	30-074
				Jar of 175	30-074J
76B®	Red	600V* 18 to 10 AWG Min. 2 #14 Max. 2 #10 & 2 #12	600V* ,75mm² to 6,0mm² Min. 2-2,5mm² Max. 2-6,0mm² w/2-4,0mm²	Carton of 1,000	30-174
				Keg of 10,000 (20 bags, 500 ea.)	30-274
				Keg of 10,000 (loose pack)	30-674
				Barrel of 35,000	30-874
				Box of 100	30-076
				Carton of 1,000	30-176
				Keg of 5,000 (20 bags, 250 ea.)	30-276
				Barrel of 15,000	30-876

*1,000V maximum in fixtures and signs

High Temperature Wire-Nut® Wire Connectors

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

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

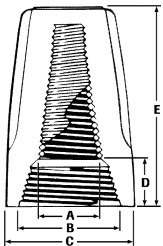


Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
71B®	Black	300V 22 to 16 AWG Min. 2 #22 Str Max. 2 #16	300V ,34mm² to 1,5mm² Min. 2-,34mm² Max. 2-,1,5mm²	Carton of 1,000	30-151
				Keg of 25,000 (loose pack)	30-251
72B®	Black	300V 22 to 14 AWG Min. 2 #22 Max. 3 #16	300V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

*1,000V maximum in fixtures and signs



Dimensions (Inches/mm)



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

Wing-Nut® Wire Connectors

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

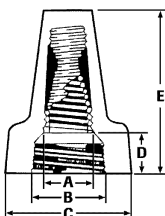


Tough, durable thermoplastic shell

Live-action, square-wire spring

Deep skirt, wide throat

Comfortable contoured wings

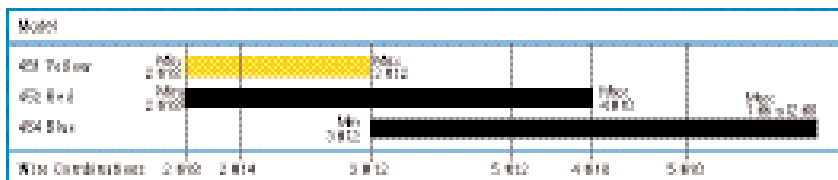


Dimensions (Inches/mm)

Model	A	B	C	D	E
451°	15/64 6	11/32 9	11/16 18	5/16 8	1-1/64 26
452°	21/64 8.5	15/32 12	15/16 24	5/16 8	1-15/64 31.5
454°	7/16 11	5/8 16	1-3/16 30	13/32 10.5	1-15/32 37.5
92°	21/64 8.5	13/32 10.5	29/32 23	9/32 10	1-5/32 30

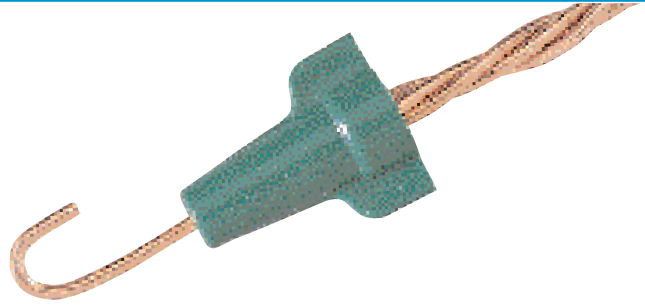
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
451°	Yellow	600V* 18 thru 10 AWG Min. 2 #18 Max. 3 #12	600V* ,75mm ² to 6,0mm ² Min. 2-,75mm ² Max. 3-4,0mm ²	Box of 100	30-451
				Jar of 225	30-451J
				Jar of 500	30-651J
				Carton of 1,000	30-551
				Keg of 10,000 (20 bags, 500 ea.)	30-651
				Barrel of 35,000	30-851
452°	Red	600V* 18 thru 8 AWG Min. 2 #18 Max. 4 #10	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
				Carton of 1,000	30-552
				Keg of 5,000 (10 bags, 500 ea.)	30-652
				Barrel of 25,000	30-852
454°	Blue	600V* 14 thru 6 AWG Min. 3 #12 Max. 2 #6 & 1 #12	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 50	30-454
				Keg of 2,500 (25 bags, 100 ea.)	30-654

*1,000V maximum in fixtures and signs



Greenie® Grounding Connector

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



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



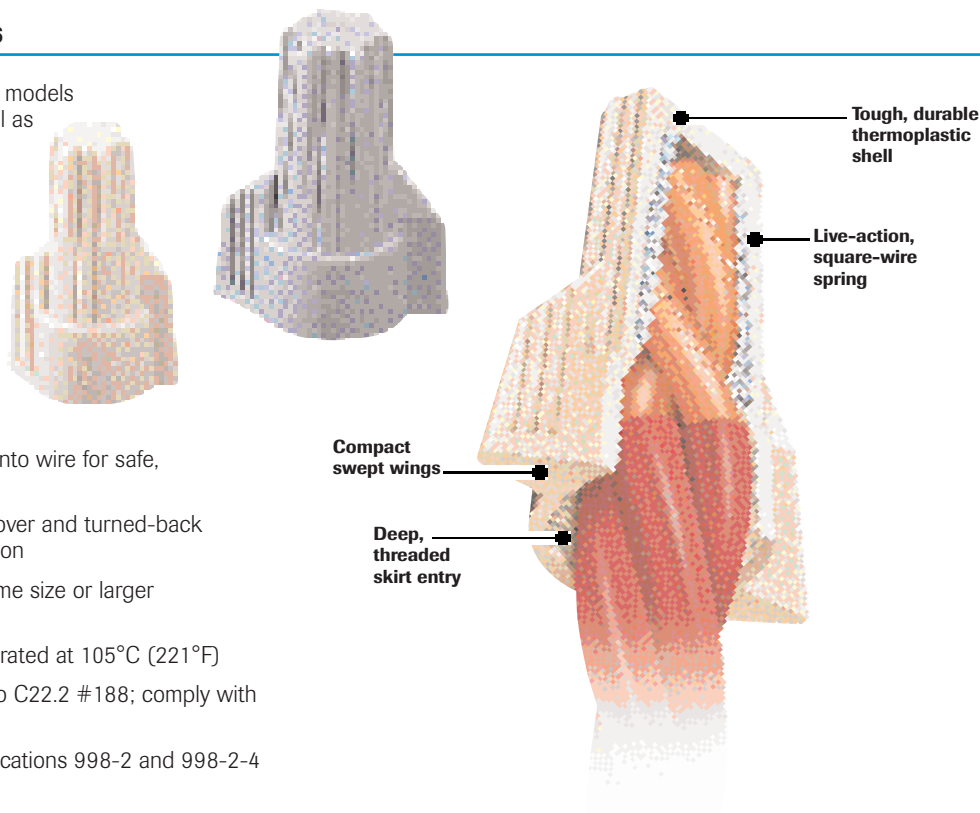
Greenie® Grounding Connector fully meets the intent of the N.E.C. and specifically aids in compliance with the following:

ARTICLE 250: GROUNDING

- 250-146 Connecting Receptacle
Grounding Terminal to Box
- 250-148 Continuity and Attachment of
Equipment Grounding
Conductors to Boxes
(B) Grounding continuity
(D) Nonmetallic boxes

Twister® Wire Connectors

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



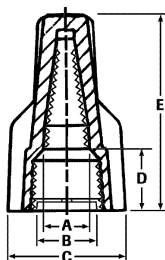
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
341®	Tan	600V* 22 thru 8 AWG Min. 3 #22 Max. 3 #10	600V* ,34mm² to 10,0mm² Min. 3-,34mm² Max. 3-6,0mm²	Box of 50	30-141
				Box of 100	30-341
				Jar of 400	30-441J
				Jar of 750	30-341J
				Keg of 10,000 (bag of 500)	30-641
342®	Gray	600V* 18 thru 8 AWG Min. 3 #14 Max 2 #8 w/2 #12	600V* ,75mm to 10,0mm² Min. 3-2,5mm² Max. 2-10,0mm² w/2-4,0mm²	Carton of 1,000	30-541
				Box of 25	30-142
				Box of 50	30-342
				Keg of 5,000 (bag of 250)	30-642

*1,000V maximum in fixtures and signs



Combination	3#22	3#14	3#10	2#12 w/2#8
Cir Mil Area	1,920 (.97mm²)	12,330 (6.24mm²)	31,140 (15.78mm²)	46,080 (23mm²)
341®				
342®				

Dimensions (Inches/mm)



Model	A	B	C	D	E
341® Tan	17/64 7	29/64 11.5	23/32 18	23/64 9	1-1/8 28.5
342® Gray	3/8 9.5	9/16 20	1.0 25.5	13/32 10.5	1-19/64 33

Twister[®] PRO Wire Connector

- SureGrip™ overmolding provides better grip for improved leverage and more torque
- Comfortable swept wings designed to help reduce hand fatigue
- Expanding square-wire spring provides a secure connection every time
- Better grip and more leverage for faster connections with less effort



Molded vertical grooves provide maximum grip

Patented swept-wing SureGrip™ design

Exceptional wire range and capacity
- Min. 2 #18
- Max. 4 #10

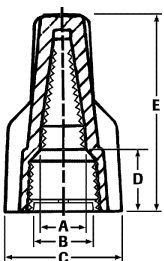


Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
344	Red/Gray	 600V* 22 to 8 AWG Min. 2 #18 Max. 4 #10	600V* ,34mm ² to 10,0mm ² Min. 2-,75mm ² Max. 4-6,0mm ²	Tube of 25	30-144J
				Jar of 250	30-244J
				Jar of 500	30-644J

*1,000V maximum in fixtures and signs



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



Dimensions (Inches/mm)

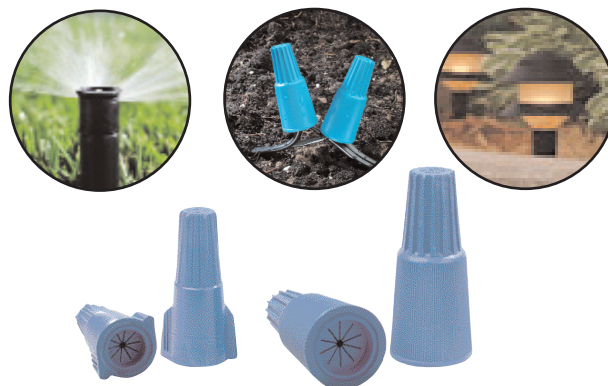
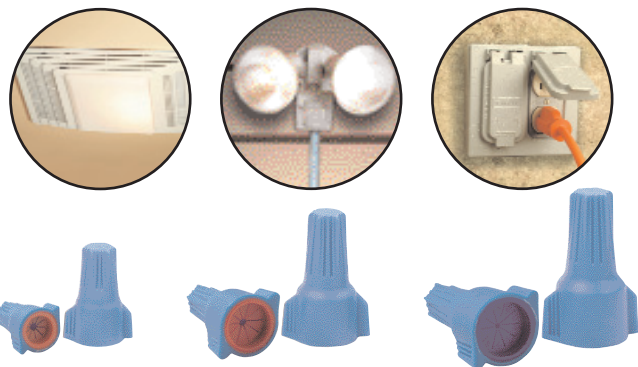
Model	A	B	C	D	E
344 Red/Gray	11/32 8.8	1/2 12.7	15/16 23.5	7/16 10.7	1-1/4 31.8

WeatherProof™ and UnderGround™ Wire Connectors

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

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

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



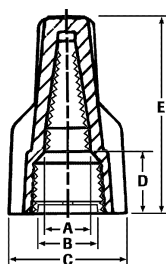
WeatherProof™ Wire Connectors

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

UnderGround™ Wire Connectors

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

*1,000V maximum in fixtures and signs



Dimensions (Inches/mm)

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

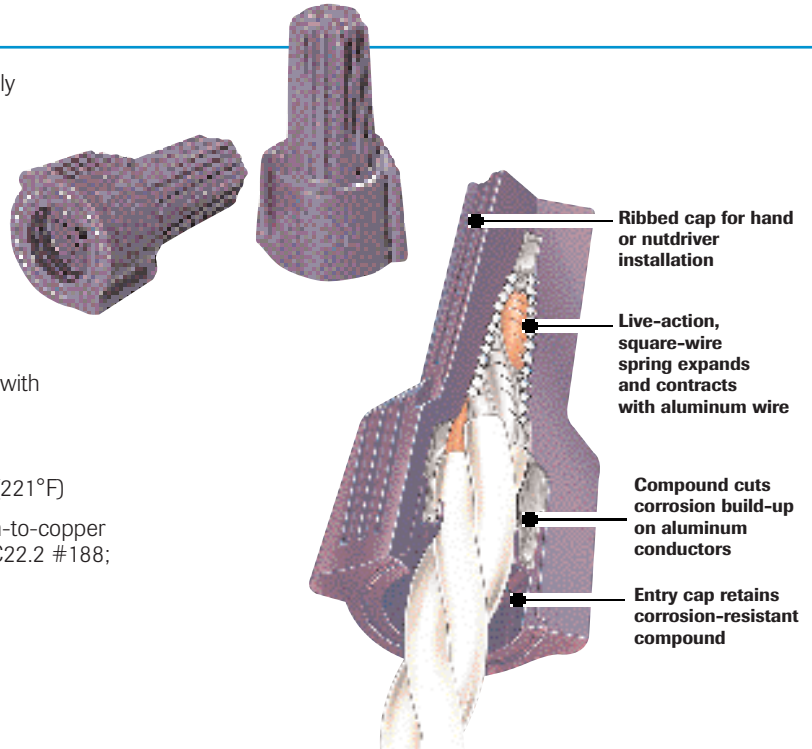


WARNING:

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

Twister® Al/Cu Wire Connector

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

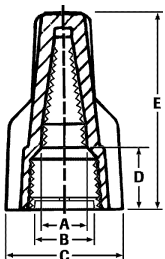


Model	Color	Wire Combinations	Quantity	Cat. No.
65	Purple	1 #10 Al solid w/1 or 2 #10 Cu solid	Card of 2	30-065
		1 #10 Al w/1 or 2 #12 Cu	Card of 10	30-765
		2 #10 Al solid w/1 #12 Cu		
		1 #10 Al w/1 or 2 #14 Cu	Card of 25	30-165
		2 #10 Al solid w/1 #14 Cu		
		2 #12 Al solid w/1 #10 Cu	Box of 100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

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



Wire Connector
also listed as
grounding equipment



Dimensions (Inches mm)

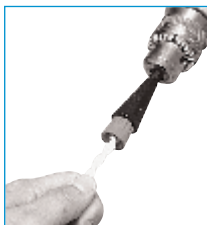
Model	A	B	C	D	E
65	17/64 7	13/32 10.5	13/16 21	35/64 14	1-11/32 34

WARNING:

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

Wire-Nut® Wire Connector Sockets

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



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

Wire-Nut® Wire Connector Wrench

- Speeds installation of Wire-Nut® Wire Connectors
- Excellent leverage helps reduce fatigue



For Connector Model	Cat. No.
73B®, 74B® & 76B®	H-632

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



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

Twist-a-Nut™ 7-in-1 Screwdriver

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



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

Wire-Nut® Wire Connector Wrench/Screwdriver Combo

- Speeds installation of Wire-Nut® Wire Connectors
- Slotted-tip screwdriver with convenient connector-wrench socket in end of insulated handle



For Connector Model	Type	Cat. No.
74B® & 76B®	Mechanic – 1/4 in. x 4 in.	30-331
74B® & 76B®	Electrician – 3/16 in. x 6 in.	30-333

Nutmaster® Nutdrivers

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



For Connector Model	Cat. No.
341®	35-292
342®	35-295

Ratch Wrench

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



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

High-Speed Wire Connector Chuck

- Cordless screwdriver adapter for installing B-CAP® Wire Connectors



For Connector Model	Cat. No.
B1, B2 & B4	HSC-1

In-Sure™ Push-In Wire Connectors

- No-twist connection reduces repetitive motion fatigue
- Low insertion force for fast and easy connections
- Compact size makes installation easy
- Clear shell gives visual verification of connection
- UL Listed to 486C and CSA Certified to C22.2 #188
- UL 467 Listed for grounding and bonding applications
- Accepts the following copper wire sizes
 - **Solid**
#20 - #12 solid
 - **Stranded**
#16 - #14 (19 strand or less)
#18 (7 strand or less)
 - **Stranded (Tin Bonded)**
#14 - #12 (19 strand or less)
#16 (26 strand or less)
#18 (16 strand or less)

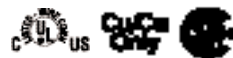


Model	Color	Ports	Length		Width		Height		Quantity	Cat. No.
			In.	mm	In.	mm	In.	mm		
84	Red	2	.355	9.02	.434	11.02	.729	18.52	Box of 100	30-084
									Jar of 300	30-084J
									Box of 1,000	30-184
									Box of 5,000	30-684
85	Orange	3	.355	9.02	.591	15.01	.729	18.52	Box of 100	30-085
									Jar of 250	30-085J
									Box of 1,000	30-185
									Box of 5,000	30-685
86	Yellow	4	.355	9.02	.748	18.99	.729	18.52	Box of 100	30-086
									Jar of 200	30-086J
									Box of 1,000	30-186
									Box of 4,000	30-686
87	Gray	5	.355	9.02	.907	23.03	.729	18.52	Box of 50	30-087
									Jar of 150	30-087J
									Box of 1,000	30-187
									Box of 5,000	30-687
88	Blue	6 Stacked	.607	15.42	.603	15.32	.729	18.52	Box of 50	30-088
									Jar of 100	30-088J
									Box of 1,000	30-188
									Box of 5,000	30-688
90	Black	8	.355	9.02	1.38	35.03	.717	18.21	Box of 50	30-090
									Jar of 100	30-090J
									Box of 1,000	30-190
									Box of 2,000	30-690

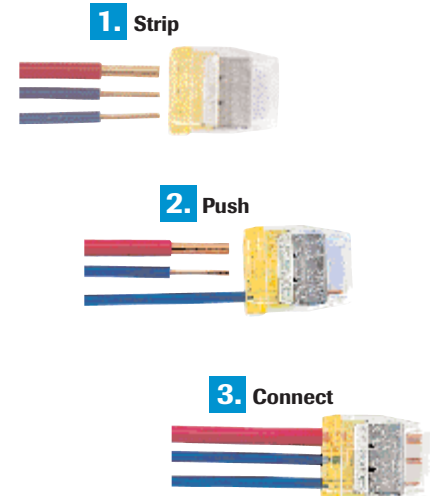
COPPER TO COPPER ONLY. Do not use on aluminum.

Temperature rating: 105°C (221°F) maximum

600V maximum building wire, 1000V maximum signs or lighting fixtures



**Installation as easy
as 1-2-3...**

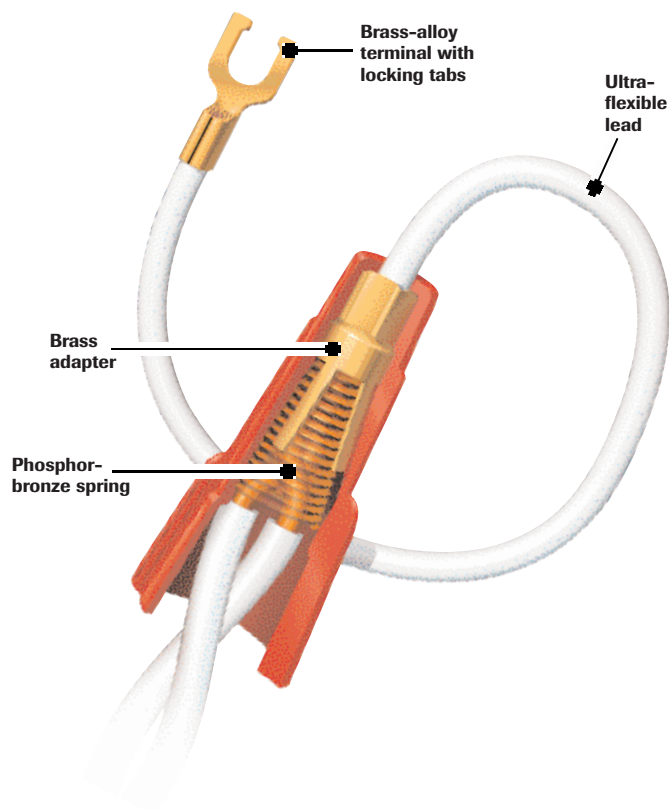
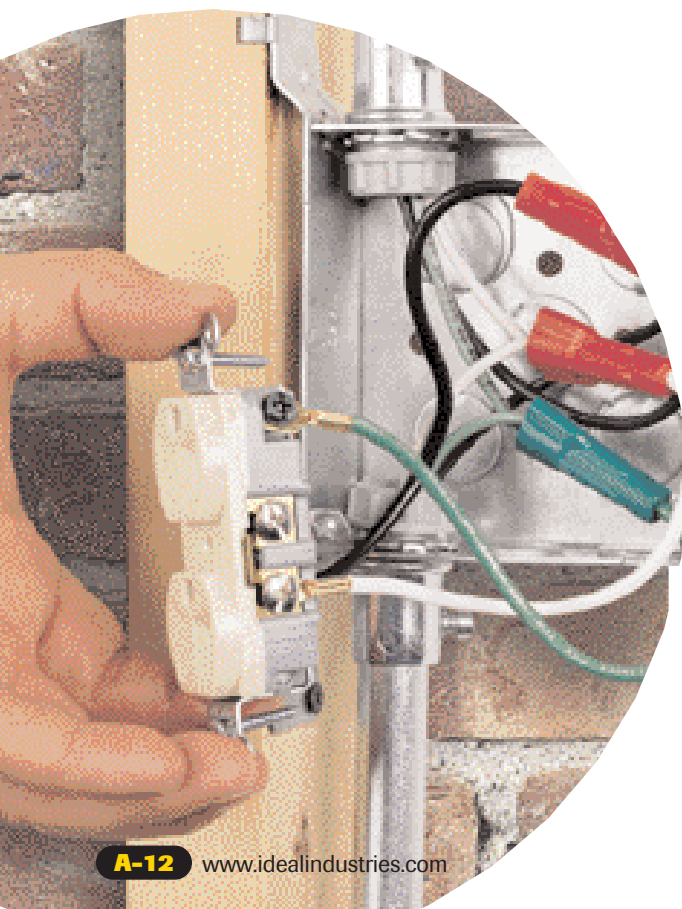
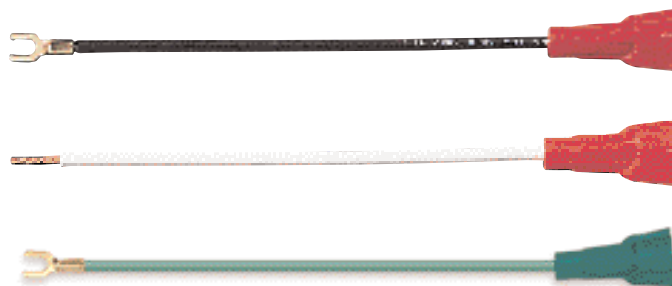


Term-a-Nut® Pigtail Wire Connectors

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

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

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



Grounding Connectors

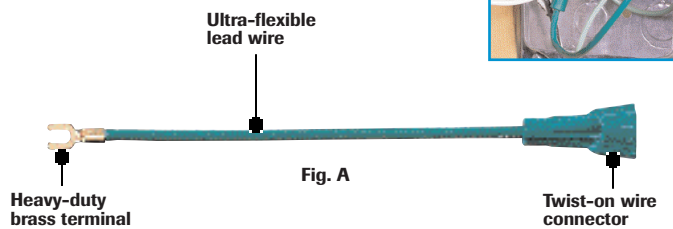
- Term-a-Nut® grounding connectors address specific requirements for grounding to steel outlet boxes and wiring multiple devices
- UL Listed to UL486C and UL467 (grounding and bonding)



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

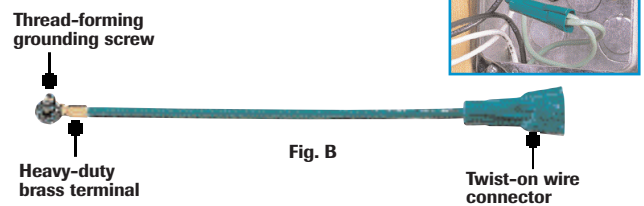
Term-a-Nut® Grounding Connector

Connects multiple grounding conductors to a device.



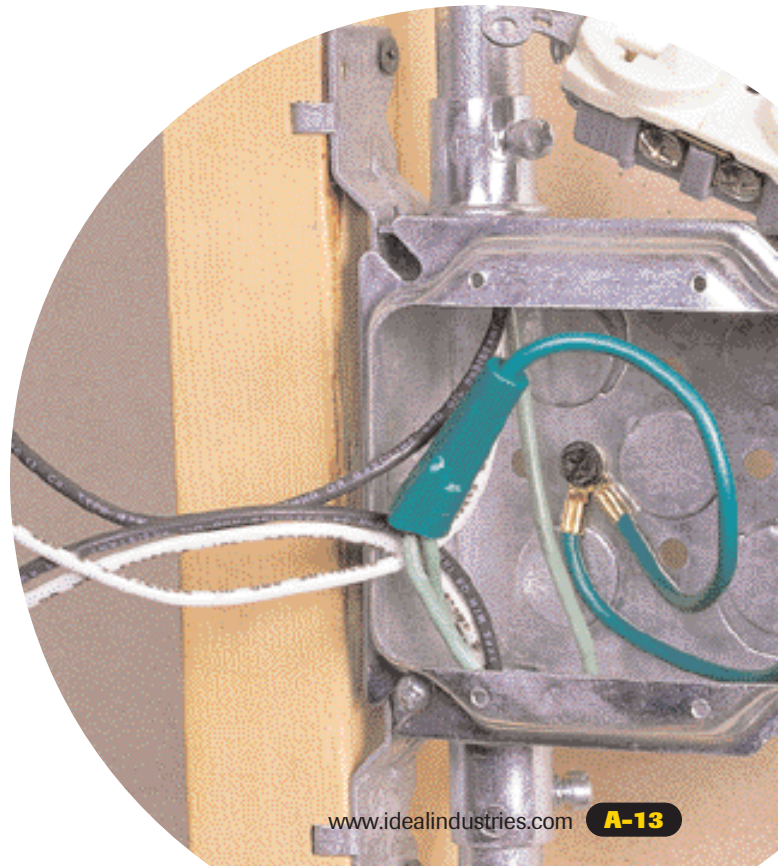
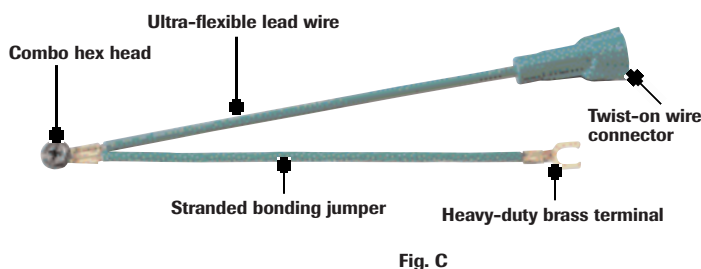
Term-a-Nut® Grounding Connector

Bonds the box to the grounding conductors.



Term-a-Nut® Grounding Connector

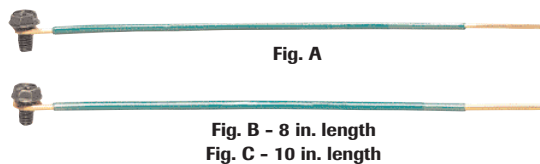
Connects grounding conductors to a device's grounding screw, connects grounding conductors to the mounting box and bonds the device to the box.



Grounding Accessories

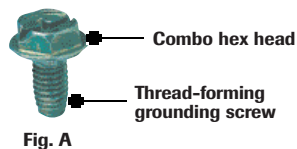
- Solid and stranded pigtail lead wires are convenient for stranded device grounding applications
- Grounding screws offer a unique thread-forming feature, plus combination hex, Phillips, slotted and Robertson tip

Grounding Tails - Solid Wire

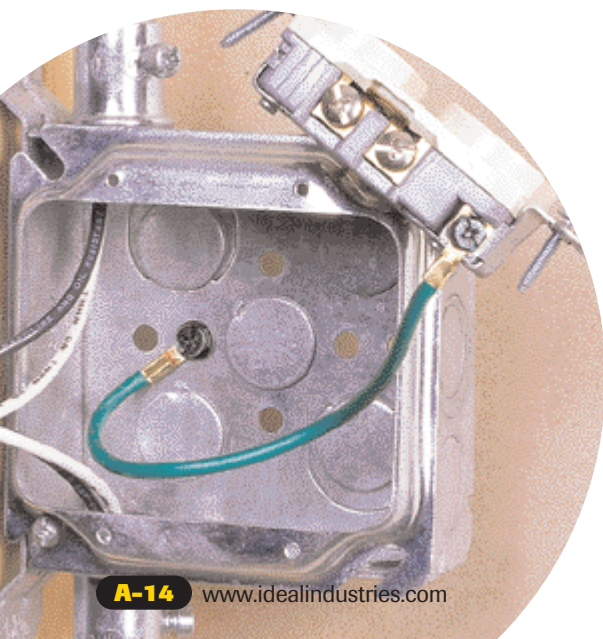


Solid Wire Grounding Tails	Quantity	Cat. No.	Fig.
14 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3390	A
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Box of 50	30-3392	B
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Bundle of 50	30-3496	B
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bundle of 50	30-3394	C

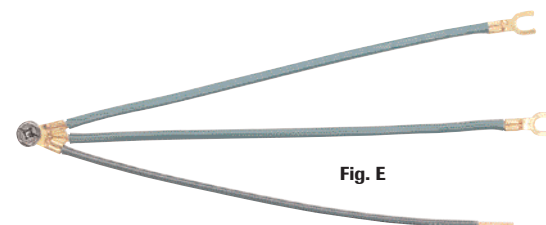
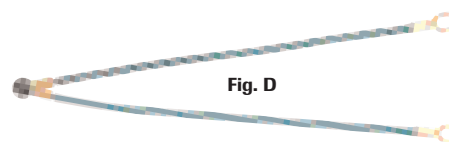
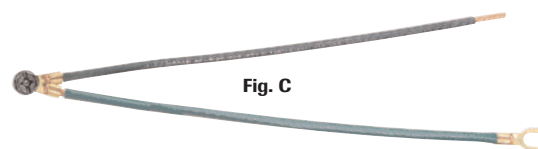
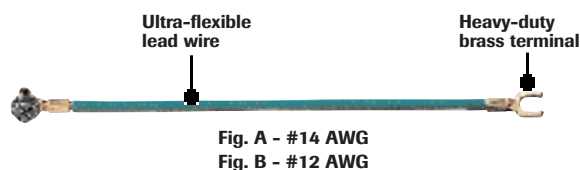
Grounding Accessories



Miscellaneous Grounding Products	Quantity	Cat. No.	Fig.
Ground Screw, thread-forming, combination hex, Phillips, slotted and Robertson-tip	Pack of 50	30-3194	A
Ground Screw, thread-forming, combination hex, Phillips, slotted and Robertson-tip	Bag of 100	30-3294	A
Grounding clip - accepts 10, 12 or 14 AWG wire	Pack of 100	30-3395	B



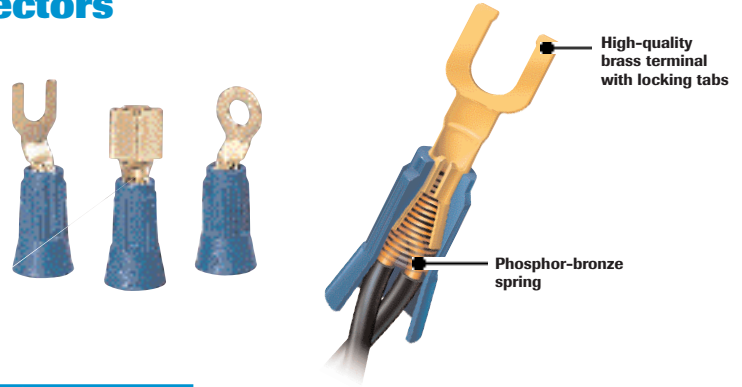
Grounding Tails - Stranded Wire



Stranded Wire Grounding Tails	Quantity	Cat. No.	Fig.
14 AWG stranded, 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bag of 25	30-3183	A
12 AWG stranded, 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bag of 25	30-3184	B
12 AWG stranded, 7-3/4 in. tail w/#10 fork & 10 ring and ground screw	Bundle of 100	30-3284	B
12 AWG stranded, 2-wire tail joined w/#10 ring and ground screw, one stripped-end tail and one 10 fork tail	Bag of 25	30-3287	C
12 AWG stranded, 2-wire tail joined w/#10 ring and ground screw and two #10 fork tails	Bag of 25	30-3288	D
12 AWG stranded, 3-wire tail joined w/#10 ring and ground screw, one stripped-end tail and two 10 fork tails	Bag of 25	30-3289	E

Term-a-Nut® Terminal Wire Connectors

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



Terminal Configurations	Qty./Clamshell	Cat. No.	Qty./Clamshell	Cat. No.
#10 fork	10	30-2904	25	30-3004
#8 fork	10	30-2914	25	30-3014
.250 in. disconnect	10	30-2906	25	30-3006
#10 ring	10	30-2912	25	30-3012
#8 ring	10	30-2910	25	30-3010
Assortment	40/kit*	30-3901		

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



Crimp Terminals-Rings, Forks, Disconnects and Splices

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



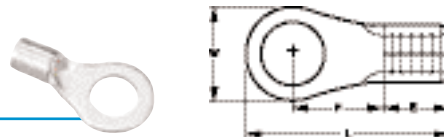
Vinyl Insulated Ring Terminals

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

75° C/600 Volts max.



Non-Insulated Ring Terminals



Wire Range (AWG)	Wire Range (mm ²)	Stud Size (Inches)	Stud Size (mm)	Dimensions (Inches)*				Dimensions (mm)**				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
				L	W	E	F	L	W	E	F				
22 - 18	0.5 - 1.0	8	4.3	.622	.315	.189	.276	15.8	8.0	4.8	7.0	25	83-0131	—	—
			5.3	.622	.315	.189	.276	15.8	8.0	4.8	7.0	25	83-0141	—	—
16 - 14	1.5 - 2.5	6	3.7	.567	.260	.189	.248	14.4	6.6	4.8	6.3	25	83-0221	—	—
		8	4.3	.661	.335	.189	.307	16.8	8.5	4.8	7.8	25	83-0231	—	—
		10	5.3	.661	.374	.189	.287	16.8	9.5	4.8	7.3	25	83-0241	1,000	84-0241
12 - 10	4.0 - 6.0	8	4.3	.772	.374	.236	.358	19.6	9.5	6.0	9.1	25	83-0331	—	—
		10	5.3	.772	.374	.236	.358	19.6	9.5	6.0	9.1	25	83-0341	1,000	84-0341
		1/4	6.4	.886	.472	.236	.413	22.5	12.0	6.0	10.5	25	83-0351	—	—
8	8.0	10	5.3	.937	.472	.337	.366	23.8	12.0	8.5	9.3	25	83-0421	—	—
		1/4	6.4	.937	.472	.337	.366	23.8	12.0	8.5	9.3	25	83-0431	—	—
		5/16	8.4	1.161	.591	.337	.543	29.8	15.0	8.5	13.8	25	83-0441	—	—
		3/8	10.5	1.161	.591	.337	.543	29.8	15.0	8.5	13.8	25	83-0451	—	—
6	14.0	10	5.3	1.173	.472	.413	.524	29.8	12.0	10.5	13.3	20	83-0511	—	—
		1/4	6.4	1.173	.472	.413	.524	29.8	12.0	10.5	13.3	20	83-0521	—	—
		5/16	8.4	1.280	.630	.413	.559	32.5	16.0	10.5	14.2	20	83-0531	—	—
		3/8	10.5	1.280	.630	.413	.559	32.5	16.0	10.5	14.2	20	83-0541	—	—
4	22.0	1/4	6.4	1.319	.650	.472	.531	33.5	16.5	12.0	13.5	20	83-0611	—	—
		5/16	8.4	1.319	.650	.472	.531	33.5	16.5	12.0	13.5	20	83-0621	—	—
		3/8	10.5	1.319	.650	.472	.531	33.5	16.5	12.0	13.5	20	83-0631	—	—

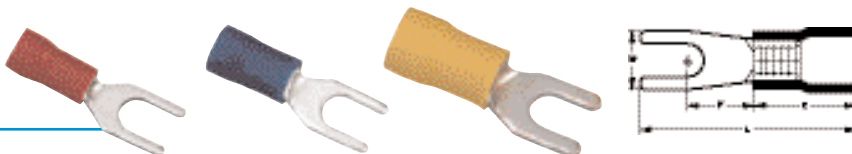
105°C/600 Volts max.

*Plus or minus .020 in.

**Plus or minus .50 in.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Insulated Spade Terminals

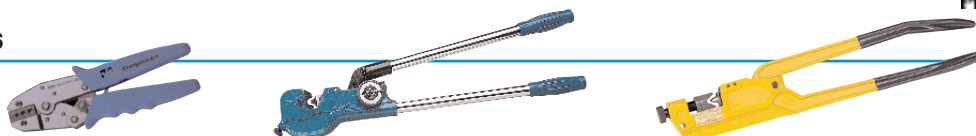


Wire Range (AWG)	Wire Range (mm ²)	Stud Size (Inches)	Stud Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	W	E	F	L	W	E	F				
22 - 18	0.5 - 1.0	6	3.7	.157	4.0	.827	.252	.394	.256	21.0	6.4	10.0	6.5	25	83-7111	1,000	84-7111
		8	4.3			.827	.283	.394	.256	21.0	7.2	10.0	6.5	25	83-7121	—	—
		10	5.3			.827	.374	.394	.256	21.0	9.5	10.0	6.5	25	83-7131	—	—
16 - 14	1.5 - 2.5	6	3.7	.177	4.5	.827	.236	.394	.256	21.0	6.0	10.0	6.5	25	83-7151	—	—
		8	4.3			.827	.283	.394	.256	21.0	7.2	10.0	6.5	25	83-7161	1,000	84-7161
		10	5.3			.827	.366	.394	.256	21.0	9.3	10.0	6.5	25	83-7171	1,000	84-7171
12 - 10	4.0 - 6.0	6	3.7	.248	6.3	1.004	.327	.512	.276	25.5	8.3	13.0	7.0	25	83-7201	—	—
		8	4.3			1.004	.283	.512	.276	25.5	9.0	13.0	7.0	25	83-7211	—	—
		10	5.3			1.004	.283	.512	.276	25.5	9.0	13.0	7.0	25	83-7221	500	84-7221
		1/4	6.4			1.240	.472	.512	.472	31.5	12.0	13.0	12.0	25	83-7231	—	—

75° C/600 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Crimp Tools



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

#83-005

#88-843

Insulated and Non-Insulated Terminals, Splices and Disconnects (#22 - #10 AWG) are UL Listed when used with IDEAL Crimp Tool #30-518 (Replacement Die #30-519).
Non-Insulated Ring Terminals (#8 - #4 AWG) are UL Listed when used with IDEAL Crimp Tool #83-005 or #88-843.
Non-Insulated Disconnects, Splices and Vinyl Insulated Parallel Splices (#22 - #10 AWG) are not UL Listed; recommended IDEAL Crimp Tool #30-518.
Non-Insulated Splices (#8 - #4 AWG) are not UL Listed, recommended IDEAL Crimp Tool #83-005 or #88-843.

Wire Termination

Vinyl Insulated Snap Spade Terminals



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

75° C/600 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Non-Insulated Spade Terminals

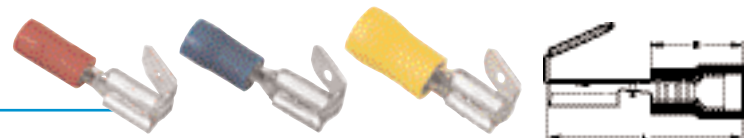


Wire Range (AWG)	Wire Range (mm²)	Stud Size (Inches)	Stud Size (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
				L	W	E	F	L	W	E	F				
22 – 18	0.5 - 1.0	6	3.7	.630	.252	.189	.256	16.0	6.4	4.8	6.5	25	83-6111	—	—
		8	4.3	.630	.283	.189	.256	16.0	7.2	4.8	6.5	25	83-6121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

105° C/600 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Insulated Multi-Stack Disconnects

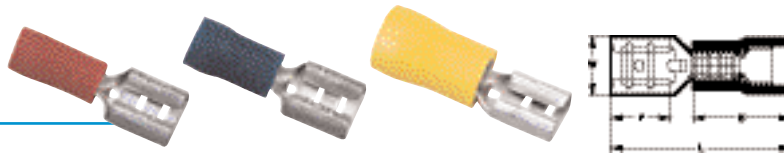


Wire Range (AWG)	Wire Range (mm²)	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)						Dimensions (mm)						Ctn. Qty.	Cat. No.
						L	B	W	F	W1	F1	L	B	W	F	W1	F1		
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.886	.413	.260	.315	.250	.323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

75° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Insulated Female Disconnects

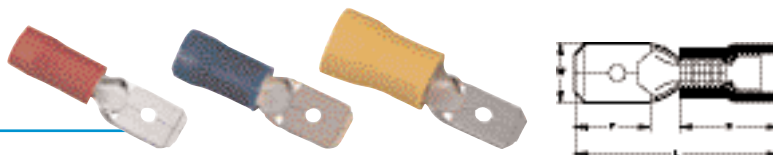


Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	L				
22 - 18	0.5 - 1.0	.110 x .020	2.8 x 0.5	.150	3.8	.728	.413	.126	.256	18.5	10.5	3.2	6.5	25	83-9511	—	—
16 - 14	1.5 - 2.5	.110 x .020	2.8 x 0.5	.185	4.7	.748	.413	.126	.256	19.0	10.5	3.2	6.5	25	83-9521	—	—
22 - 18	0.5 - 1.0	.187 x .020	4.75 x 0.5	.150	3.8	.764	.413	.197	.252	19.4	10.5	5.0	6.4	25	83-9541	—	—
16 - 14	1.5 - 2.5	.187 x .020	4.75 x 0.5	.185	4.7	.764	.413	.197	.252	19.4	10.5	5.0	6.4	25	83-9551	—	—
22 - 18	0.5 - 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.819	.413	.260	.287	20.8	10.5	6.6	7.3	25	83-9571	—	—
16 - 14	1.5 - 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.819	.413	.260	.287	20.8	10.5	6.6	7.3	25	83-9581	500	84-9581
14 - 12	2.5 - 4.0	.250 x .032	6.35 x 0.8	.244	6.2	.917	.512	.260	.287	23.3	13.0	6.6	7.3	25	83-9591	—	—
12 - 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.917	.512	.260	.287	23.3	13.0	6.6	7.3	25	83-9601	—	—

75° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Insulated Male Disconnects



Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	F		
22 - 18	0.5 - 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.858	.413	.250	.303	21.8	10.5	6.35	7.7	25	83-9971
16 - 14	1.5 - 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.858	.413	.250	.303	21.8	10.5	6.35	7.7	25	83-9981
12 - 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.250	.303	24.0	13.0	6.35	7.7	25	83-9991

75° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Non-Insulated Female Disconnects



Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
22 - 18	0.5 - 1.0	.110 x .020	2.8 x 0.5	.630	.189	.126	.256	16.0	4.8	3.2	6.5	25	83-9411
16 - 14	1.5 - 2.5	.110 x .020	2.8 x 0.5	.630	.189	.126	.256	16.0	4.8	3.2	6.5	25	83-9421
22 - 18	0.5 - 1.25	.187 x .020	4.75 x 0.5	.630	.189	.197	.252	16.0	4.8	5.0	6.4	25	83-9441
16 - 14	1.5 - 2.5	.187 x .020	4.75 x 0.5	.630	.189	.197	.252	16.0	4.8	5.0	6.4	25	83-9451
22 - 18	0.5 - 1.25	.250 x .032	6.35 x 0.8	.630	.189	.260	.287	16.0	4.8	6.6	7.3	25	83-9471
16 - 14	1.5 - 2.5	.250 x .032	6.35 x 0.8	.630	.189	.260	.287	16.0	4.8	6.6	7.3	25	83-9481
12 - 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.728	.236	.260	.287	18.5	6.0	6.6	7.3	25	83-9501

105° C/300 Volts max.

Wire Termination

Nylon Fully-Insulated Female Disconnects



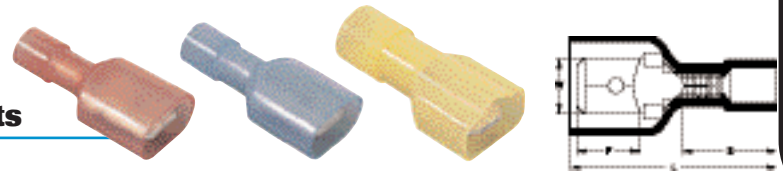
Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	L				
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.866	.433	.260	.287	22.0	11.0	6.6	7.3	25	83-9771	—	—
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.866	.433	.260	.287	22.0	11.0	6.6	7.3	25	83-9781	1,000	84-9781
12 – 10	4.0 – 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.260	.287	24.0	13.0	6.6	7.3	25	83-9791	500	84-9791

105° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Disconnects

Nylon Fully-Insulated Male Disconnects



Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.906	.433	.250	.303	23.0	11.0	6.35	7.7	25	83-9911
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.945	.433	.250	.303	24.0	11.0	6.35	7.7	25	83-9921
12 – 10	4.0 – 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.984	.512	.250	.303	25.0	13.0	6.35	7.7	25	83-9931

105° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Insulated Bullet Disconnects



Wire Range (AWG)	Wire Range (mm ²)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.150	3.8	.846	.413	.157	.335	21.5	10.5	4.0	8.5	25	83-8001
16 – 14	1.5 – 2.5	.185	4.7	.846	.413	.157	.335	21.5	10.5	4.0	8.5	25	83-8011

75° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

Vinyl Fully-Insulated Receptacle Disconnects

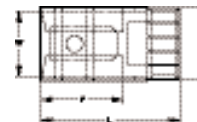


Wire Range (AWG)	Wire Range (mm ²)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.150	3.8	.917	.413	.153	.287	23.3	10.5	3.9	7.3	25	83-8101
16 – 14	1.5 – 2.5	.185	4.7	.917	.413	.153	.287	23.3	10.5	3.9	7.3	25	83-8111

75° C/300 Volts max.

Listed 774A Cu Only Pressure Wire Connector

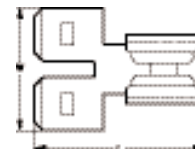
Non-Insulated Flag Female Disconnect



Wire Range (AWG)	Wire Range (mm ²)	Tab Size (Inches)	Tab Size (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
16 – 14	1.5 – 2.5	.250 x .032	6.35 x 0.8	.551	.291	.260	.299	14.0	7.4	6.6	7.6	25	83-9401

105° C/300 Volts max.

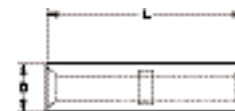
Disconnect Adapter – Male to Female (2-1)



Tab Size (Inches)	Tab Size (mm ²)	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.
		L	W	L	W		
.250 x .032	6.35 x 0.8	.551	.260	14.0	6.6	25	83-9801

105° C/300 Volts max.

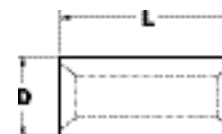
Non-Insulated Butt Splices



Wire Range (AWG)	Wire Range (mm ²)	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
		L	D	L	D				
22 – 18	0.5 – 1.0	.591	.130	15.0	3.3	25	83-9001	—	—
16 – 14	1.5 – 2.5	.591	.154	15.0	3.9	25	83-9011	—	—
12 – 10	4.0 – 6.0	.591	.213	15.0	5.4	25	83-9021	500	84-9021
8	8.0	.827	.276	21.0	7.0	25	83-9031	250	84-9031
6	14.0	1.024	.350	26.0	8.9	20	83-9041	—	—
4	22.0	1.142	.445	29.0	11.3	20	83-9051	—	—

105° C/600 Volts max.

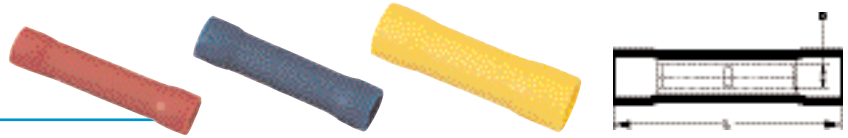
Non-Insulated Parallel Splices



Wire Range (AWG)	Wire Range (mm ²)	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
		L	D	L	D				
22 – 18	0.5 – 1.0	.315	.130	8.0	3.3	25	83-9071	—	—
16 – 14	1.5 – 2.5	.315	.154	8.0	3.9	25	83-9081	1,000	84-9081
12 – 10	4.0 – 6.0	.335	.213	8.5	5.4	25	83-9091	—	—

105° C/600 Volts max.

Vinyl Insulated Butt Splices



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

75° C/600 Volts max.

Listed 774A  Cu Only 
Pressure Wire Connector

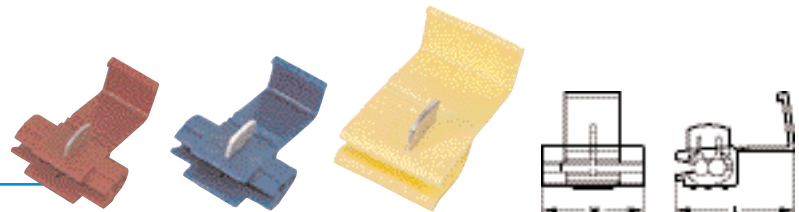
Vinyl Insulated Parallel Splices



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

75° C/600 Volts max.

Tap Splice Connectors



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

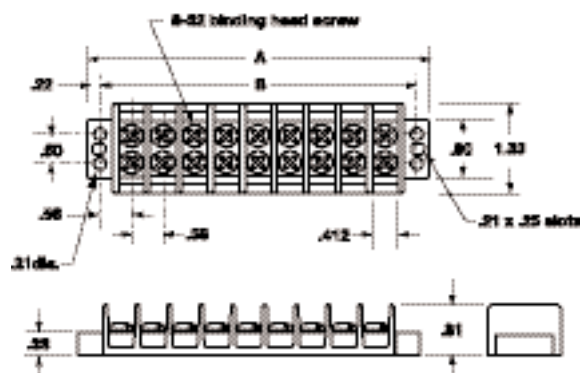
105° C/600 Volts max.

Terminal Strips

- Heavy-duty, corrosion-resistant screws, surface plates and optional hardware
- Accessory hardware provides a variety of termination options
- Available cover helps prevent contact with live terminals

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

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



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

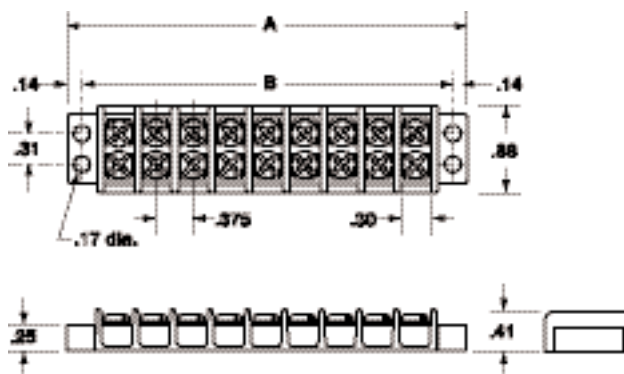
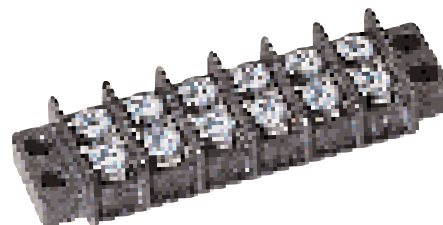
*Max. electrical rating 30A/250V when used with optional quick-connects.



- Rugged polyester thermoplastic base (UL Rated 94V-O)
- Operating temperature rated from 130°C (260°F) to -40°C (-40°F)
- UL Recognized (E62622) and CSA Certified (LR15364)

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

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



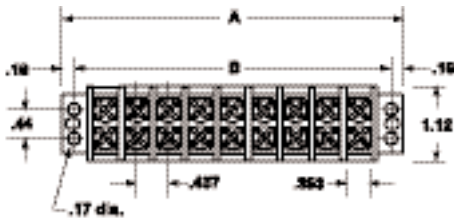
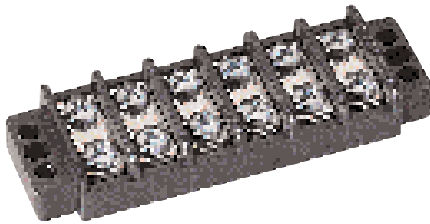
No. of Poles	Dimensions (Inches)		Cat. No.
	A	B	
2	1.40	1.12	89-302
4	2.16	1.88	89-304
6	2.90	2.62	89-306
8	3.66	3.38	89-308
10	4.40	4.12	89-310
12	5.16	4.88	89-312

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



89-400 Series Terminal Strips 20A/250V UL/CSA

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



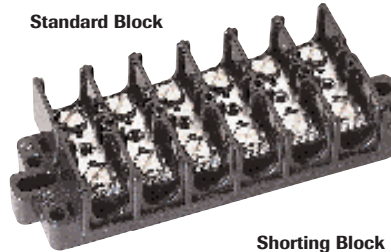
No. of Poles	Dimensions (Inches)		Cat. No.
	A	B	
2	1.63	1.31	89-402
4	2.51	2.18	89-404
6	3.38	3.06	89-406
8	4.25	3.93	89-408
10	5.13	4.81	89-410
12	6.00	5.68	89-412



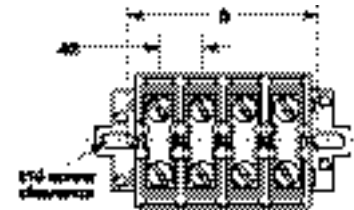
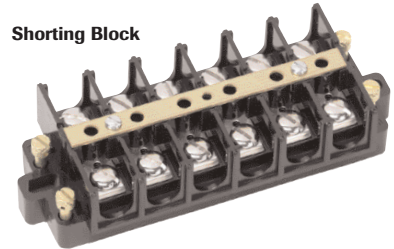
89-500 Series Terminal Strips 60A/600V* UL/CSA

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

Standard Block



Shorting Block



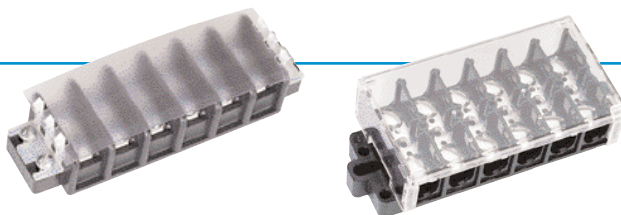
No. of Poles	Dimensions (Inches)		Standard Block Cat. No.	Shorting Block Cat. No.
	A	B		
4	3.75	2.87	89-504	89-505
6	5.00	4.12	89-506	89-507
8	6.25	5.37	89-508	89-509
12	8.75	7.87	89-512	89-513

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



Covers

- Helps prevent contact with live terminals

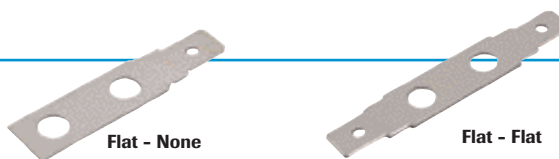


No. of Circuits	For Use With Terminal Strip Series			
	89-200 Clear Cat. No.	89-300 Clear Cat. No.	89-400 Clear Cat. No.	89-500 Clear Cat. No.
2	89-233	89-334	89-434	—
3	89-234	—	—	—
4	89-235	89-335	89-435	89-514
6	89-236	89-336	89-436	89-516
8	89-237	89-337	89-437	89-518
10	89-238	89-338	89-438	—
12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

Quick Connects

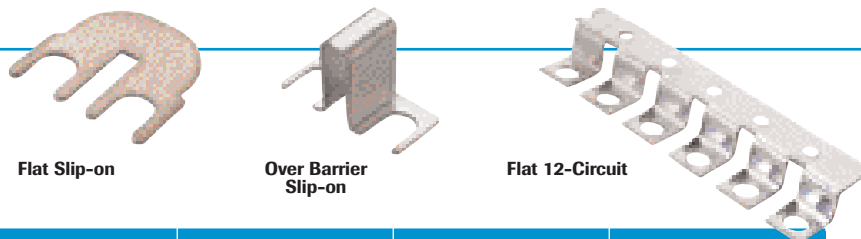
- Allows fast, flexible circuit changes

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



Jumpers

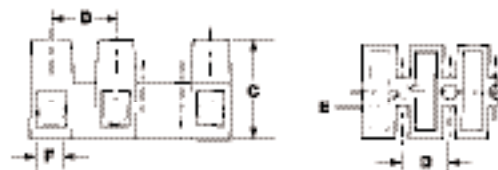
- Provides easy connection of multiple circuits



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

Barrier Strips

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



Barrier Strips

Electrical Ratings	Wire Range (AWG)	No. of Circuits	Torque in.-lb.	Model No.	Dimensions (Inches)						Dimensions (mm)						Cat. No.
					A	B	C	D	E	F*	A	B	C	D	E	F**	
20A/600V UL	22 - 12	12	3.5	PA8DS	3.787	0.669	0.570	0.315	0.114	0.110	96.2	17.0	14.5	8.0	2.9	2.8	89-608
10A/400V CSA	20 - 18																
30A/600V UL	22 - 10	12	4.4	PA10DS	4.626	0.795	0.670	0.394	0.142	0.134	117.0	20.2	17.0	10.0	3.6	3.4	89-610
20A/400V CSA	18 - 14																
35A/600V UL/CUL	22 - 10	12	7.0	PA12DS	5.540	0.937	0.748	0.472	0.154	0.154	140.7	23.8	19.0	12.0	3.9	3.9	89-612
50A/600V UL/CUL	20 - 8	12	12.0	PA14DS	6.220	1.008	0.992	0.531	0.173	0.189	158.0	25.6	25.2	13.5	4.4	4.8	89-614

*Plus or minus .004 in.

**Plus or minus 0.1mm



Crimp Connectors



- Designed for making fast, permanent, pressure-type connections
- Long, zinc-plated steel sleeves maximize contact area with conductors
- Solid copper sleeves require less crimping pressure and resist corrosion in harsh environments
- Will not vibrate loose when securely crimped
- Steel crimp connectors are UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E. Copper crimp connector is UL 486C Listed only

Steel Crimp Connectors

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

Dimensions (Inches)



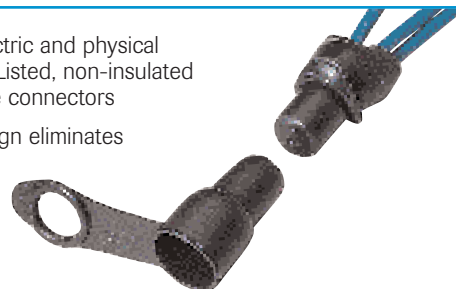
Model	A	B
410 Steel	3/8	13/64
411 Steel	5/8	1/4
412 Steel	51/64	19/64



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

Wrap-Cap® Insulators

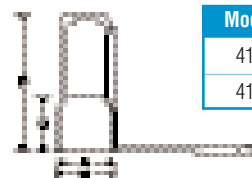
- Provide high dielectric and physical protection for UL Listed, non-insulated pressure-type wire connectors
- Cap and loop design eliminates need for tape
- Unique design completely covers splice — insulates both around and between wires
- Reusable and easy to install
- UL Listed and CSA Certified for 600V maximum building wiring (1,000V maximum for fixtures and signs); temperature rated at 75°C (167°F) maximum



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

Dimensions (Inches)

Model	A	B	C	D
415	1/2	5/8	23/32	1-13/64
417	11/16	3/4	3/4	1-25/32



Pre-Insulated Crimp Connectors



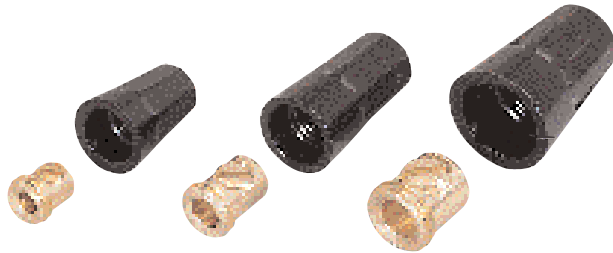
- Three models cover a wide range of wire combinations from 22 AWG stranded through 8 AWG stranded
- Compact design fits easily into tight locations
- Flared skirt protects against turned-back strands
- Beveled opening eases wire entry

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

*1,000V maximum in fixtures and signs

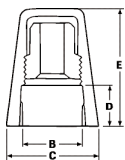


Set-Screw Wire Connectors



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

Model	Wire Combination Range	Quantity	Cat. No.
10	300V 22 thru 16 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 14 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



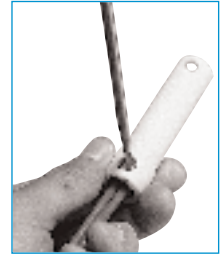
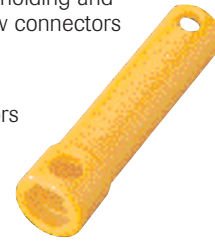
Dimensions (Inches)

Insert		Shell			
Model	A	B	C	D	E
10	1/8	5/16	1/2	19/64	45/64
11	3/16	3/8	33/64	13/32	63/64
22	1/4	1/2	11/16	13/32	1-1/64



Set-Screw Holder

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



For Connector Models

11 & 22

Cat. No.

K-2422

Noalox® Anti-Oxidant



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

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

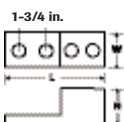
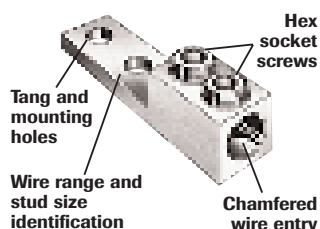
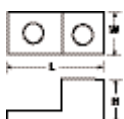
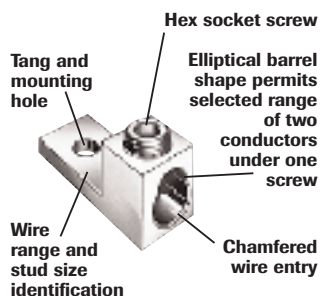
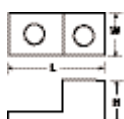
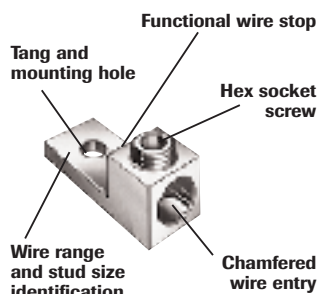
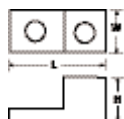
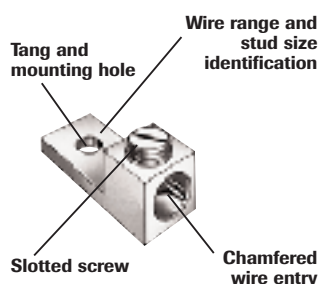


Powr-Connect™ Mechanical Lugs

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

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

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



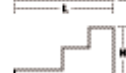
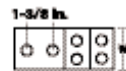
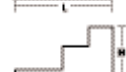
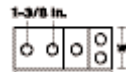
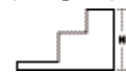
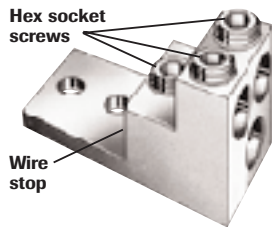
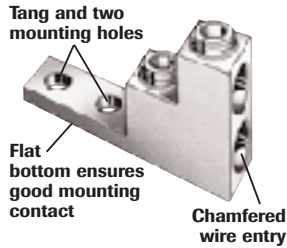
Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
LA-50-1	6 – 14 AWG	1-1/16	3/8	1/2	1/4	87-002
Narrow type – special mounting requirements						
LA-2	2 – 14 AWG	1-5/32	1/2	9/16	1/4	87-005
LA-1/0	1/0 – 14 AWG	1-15/32	5/8	25/32	1/4	87-007
LA-1/0*	1/0 – 14 AWG	1-15/32	5/8	25/32	3/8	87-008
LA-2/0	2/0 – 14 AWG	1-15/32	5/8	25/32	1/4	87-009
LA-2/0*	2/0 – 14 AWG	1-15/32	5/8	23/32	3/5	87-010
LA-250	250 KCMIL – 6 AWG	2	1	1-1/8	5/16	87-011
LA-250*	250 KCMIL – 6 AWG	2	1	1-1/8	3/8	87-012
LA-300	300 KCMIL – 6 AWG	2	1	1-1/8	5/16	87-013
LA-300*	300 KCMIL – 6 AWG	2	1	1-1/8	3/8	87-014
LA-350	350 KCMIL – 6 AWG	2-1/4	1-1/8	1-1/4	3/8	87-015
LA-350*	350 KCMIL – 6 AWG	2-1/4	1-1/8	1-1/4	1/2	87-016
LA-500	500 KCMIL – 4 AWG	2-13/16	1-1/4	1-9/16	3/8	87-017
LA-500*	500 KCMIL – 4 AWG	2-13/16	1-1/2	1-9/16	1/2	87-018
LA-600	600 KCMIL – 2 AWG	3-3/16	1-1/2	1-9/16	3/8	87-019
LA-800	800 – 300 KCMIL	3-1/2	1-3/4	1-15/16	5/8	87-021
LA-1000	1,000 – 350 KCMIL	3-1/2	1-3/4	1-15/16	5/8	87-023
LA-630	600 KCMIL – 4 AWG (1) 250 KCMIL – 1/0 AWG (2)	2-13/16	1-3/8	1-13/16	3/8	87-025
L1D2-600	600 KCMIL – 2 AWG	5-5/16	1-1/2	1-1/2	1/2	87-027
L1D2-800	800 – 00 KCMIL	6-3/16	1-3/4	1-7/8	1/2	87-029
L1D2-1000	1,000 – 500 KCMIL	6-3/16	1-3/4	1-7/8	1/2	87-031

*Larger mounting hole



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

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

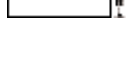
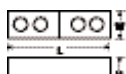
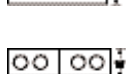
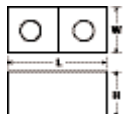
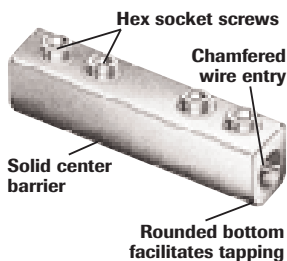
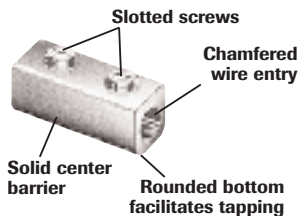


Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
PV2-600	600 KCMIL – 2 AWG	4-29/32	1-1/2	3	3/8	87-126
PV2-750	750 KCMIL – 1/0 AWG	4-29/32	1-9/16	3	3/8	87-129
PV3-600	600 KCMIL – 2 AWG	4-29/32	2-1/2	3	3/8	87-132
PV3-750	750 KCMIL – 1/0 AWG	4-29/32	2-27/32	3	3/8	87-135
PV4-600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



Dual-Rated (Al/Cu) Splicer Reducers

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



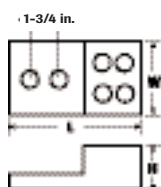
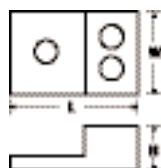
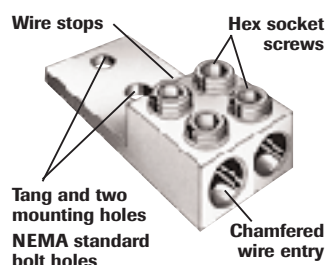
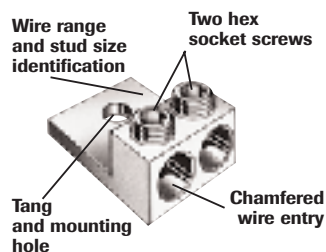
Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
SR-2*	2 – 14 AWG	1-3/8	1/2	9/16	5/8	87-143
SR-1/0*	1/0 – 14 AWG	1-29/32	3/4	3/4	7/8	87-144
SR-250	250 KCMIL – 6 AWG	3-15/16	1	1-1/8	1-15/16	87-145
SR-350	350 KCMIL – 6 AWG	4-3/16	1-1/8	1-3/16	2-1/16	87-146
SR-500	500 KCMIL – 3/0 AWG	5	1-3/8	1-1/2	2-7/16	87-147

*Slotted screws



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

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

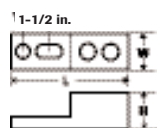
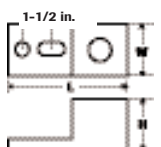
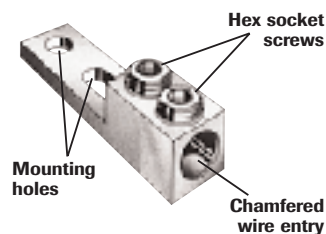
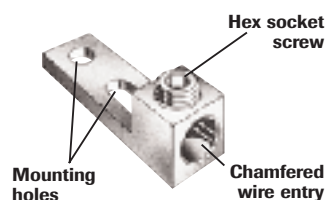


Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
L2A1-1/0	1/0 – 14 AWG (2)	1-15/32	1-1/8	25/32	1/4	87-040
L2A1-2/0	2/0 – 14 AWG (2)	1-15/32	1-1/4	25/32	1/4	87-042
L2A1-250	250 KCMIL – 6 AWG (2)	2-9/16	1-5/8	1-3/16	3/8	87-044
L2A1-350	350 KCMIL – 6 AWG (2)	2-7/8	1-15/16	1-1/4	1/2	87-046
L2A1-600	600 KCMIL – 2 AWG (2)	3-3/16	2-13/32	1-9/16	1/2	87-048
L2D2-350	350 KCMIL – 6 AWG (2)	4-1/4	2-5/16	1-3/8	1/2	87-055
L2D2-600	600 KCMIL – 2 AWG (2)	5-5/16	2-3/4	1-1/2	1/2	87-060



Dual-Rated (Al/Cu) Switch-Gear Connectors

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



Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
SG-350	350 KCMIL – 4 AWG	4-11/16	1-1/4	1-9/16	1/2	87-102
SG-500	500 KCMIL – 400 KCMIL	4-11/16	1-1/4	1-9/16	1/2	87-105
SG-800	800 – 300 KCMIL	6-3/16	1-1/2	1-7/8	1/2	87-110
SG-1000	1,000 – 350 KCMIL	6-3/16	1-5/8	1-7/8	1/2	87-115



Dual-Rated (Al/Cu) Connectors with Multiple Stud Holes Per NEMA for Spade-Type Transformers and Bus Bars

- Clear-coated, high-strength aluminum alloy construction
- Chamfered wire entry
- Hex socket, pressure-pad screws

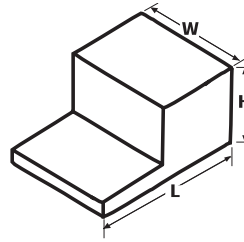


FIG. 1



FIG. 2

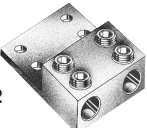


FIG. 3



FIG. 4



FIG. 5



FIG. 6

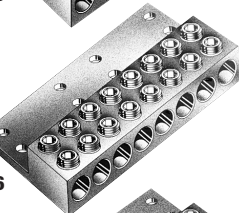


FIG. 7

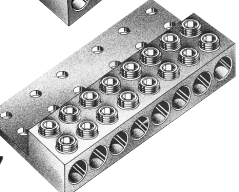


FIG. 8



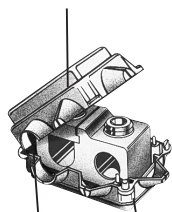
Model	Fig. No.	Wire Range	No. of Wires	No. of Mtg. Holes	Dimensions (Inches)			Tang Thickness (In.)	Cat. No.
					L	W	H		
L2D4-250	2	250 KCMIL – 6 AWG	2	4	5-5/16	3	1-1/2	3/8	88-032
L3D4-250	3	250 KCMIL – 6 AWG	3	4	5-5/16	3	1-1/2	3/8	88-033
L6D8-250	5	250 KCMIL – 6 AWG	6	8	5-5/16	6-5/32	1-1/2	3/8	88-035
L8D8-250	6	250 KCMIL – 6 AWG	8	8	5-5/16	8-1/4	1-1/2	3/8	88-036
L1D2-350	1	350 KCMIL – 6 AWG	1	2	5-5/16	1-1/4	1-1/2	3/8	88-037
L3D4-350	3	350 KCMIL – 6 AWG	3	4	5-5/16	3-1/2	1-1/2	3/8	88-039
L4D6-350	4	350 KCMIL – 6 AWG	4	6	5-5/16	4-23/32	1-1/2	3/8	88-040
L6D8-350	5	350 KCMIL – 6 AWG	6	8	5-5/16	7-1/8	1-1/2	3/8	88-041
L1D2-500	1	500 KCMIL – 6 AWG	1	2	5-5/16	1-1/4	1-1/2	3/8	88-043
L2D4-500	2	500 KCMIL – 6 AWG	2	4	5-5/16	3	1-1/2	3/8	88-044
L3D4-500	3	500 KCMIL – 6 AWG	3	4	5-5/16	3-7/8	1-1/2	3/8	88-045
L4D6-500	4	500 KCMIL – 6 AWG	4	6	5-5/16	5-1/4	1-1/2	3/8	88-046
L6D10-500	—	500 KCMIL – 6 AWG	6	10	5-5/16	7-29/32	1-1/2	3/8	88-047
L8D12-500	7	500 KCMIL – 6 AWG	8	12	5-5/16	10-19/32	1-1/2	3/8	88-048
L2D4-750	2	750 KCMIL – 1/0 AWG	2	4	6-3/16	3-1/4	1-7/8	9/16	88-050
L3D4-750	3	750 KCMIL – 1/0 AWG	3	4	6-3/16	5	1-7/8	9/16	88-051
L6D12-750	8	750 KCMIL – 1/0 AWG	6	12	6-3/16	10	1-7/8	9/16	88-053
L8D12-750	7	750 KCMIL – 1/0 AWG	8	12	6-3/16	13-3/8	1-7/8	9/16	88-054

Powr-Connect™ Tap Connectors

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

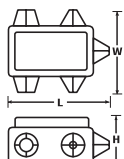
- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU) – 105°C, 600V max.

Insulating cover reduces installation cost



Flexible hinge

Self-locking design



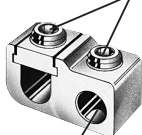
Model	Wire Range		Strip Length (In.)	Dimensions (Inches)			Cat. No.
	Main	Tap		L	W	H	
GP-2C	2 – 12 AWG	4 – 14 AWG	5/8	2-7/32	1-29/32	1-7/64	87-180
GP-1/0C	1/0 – 2 AWG	1/0 – 14 AWG	3/4	2-5/8	2-5/32	1-1/4	87-182
GP-250C	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	3-7/16	2-7/8	1-5/8	87-186
GP-350C	350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



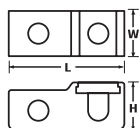
Dual-Rated (Al/Cu) Parallel-Tap Connectors without Covers

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

Slotted screws



Serrated barrel bottom for positive terminations



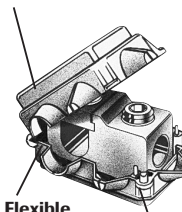
Model	Wire Range		Strip Length (In.)	Dimensions (Inches)			Cat. No.
	Main	Tap		L	W	H	
GP-2	2 – 12 AWG	4 – 14 AWG	5/8	1-25/64	5/8	7/8	87-150
GP-1/0	1/0 – 2 AWG	1/0 – 14 AWG	3/4	1-3/4	3/4	1	87-152
GP-250	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	2-9/32	1-1/16	1-5/16	87-156
GP-350	350 KCMIL – 4/0 AWG	250 KCMIL – 6 AWG	1-1/4	2-9/16	1-1/4	1-7/16	87-160
GP-500	500 – 350 KCMIL	500 KCMIL – 2 AWG	1-3/8	3-1/8	1-3/8	1-3/4	87-164



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

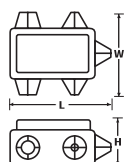
- Electro tin-plated, high-strength aluminum alloy construction
- UL Listed to 486B (AL9CU) – 105°C, 600V max.

Insulating cover reduces installation cost



Flexible hinge

Self-locking design

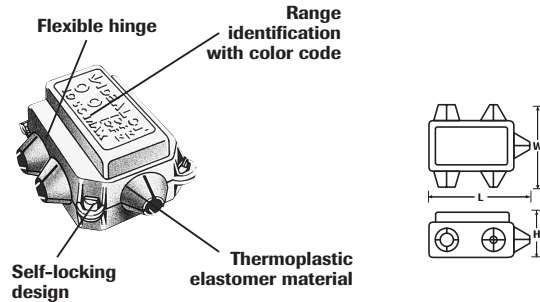


Model	Wire Range		Strip Length (In.)	Dimensions (Inches)			Cat. No.
	Main	Tap		L	W	H	
GT-1/0C	1/0 – 2 AWG	1/0 – 14 AWG	3/4	2-5/8	2-5/32	1-1/4	87-242
GT-350C	350 KCMIL – 4/0 AWG	350 KCMIL – 6 AWG	1-1/4	3-3/4	3-3/16	1-3/4	87-250



Insulating Covers for GP and GT Connectors

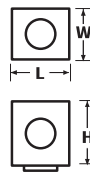
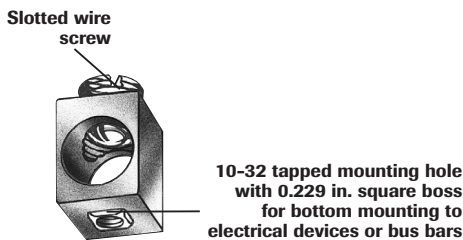
- 600V maximum
- 105°C maximum temperature



Model	Cover For Model	Color	Dimensions (Inches)			Cat. No.
			L	W	H	
GIC-2	GP-2 & GT-2	Yellow	2-7/32	1-29/32	1-7/64	87-370
GIC-1/0	GP-1/0 & GT-1/0	Gray	2-5/8	2-5/32	1-1/4	87-372
GIC-250	GP & GT-250 GP & GT 250-0	Red	3-7/16	2-7/8	1-5/8	87-374
GIC-350	GP & GT-350	Yellow	3-3/4	3-3/16	1-3/4	87-376
GIC-500	GP & GT-500	Blue	4-3/8	3-5/16	2-3/32	87-380



Dual-Rated (Al/Cu) Collar Connectors



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

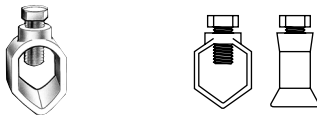
*Successfully tested to AL9CU
**Successfully tested to AL7CU



Powr-Connect™ Grounding Connectors

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

Heavy-Duty Clamps



Model	Rod Dia. (In.)	Wire Range	Dimensions (Inches)			Cat. No.
			H	W	L	
WB58	5/8	1/0 – 8	2-1/8	7/8	1	87-958
WB34	3/4	1/0 – 8	2-1/4	1-1/16	1	87-934



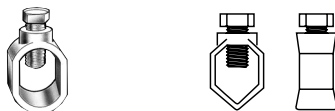
High-Strength Ground Clamps



Model	Pipe Size (In.)	Wire Range	Dimensions (Inches)			Cat. No.
			H	W	L	
J	1/2 – 1	2 – 10	2-3/4	2-3/8	3/4	87-563
J2	1-1/4 – 2	2 – 10	3-3/4	3-5/8	7/8	87-564
J2124	2-1/2 – 4	4 – 10	6	6-5/16	1	87-565



Standard-Duty Clamps

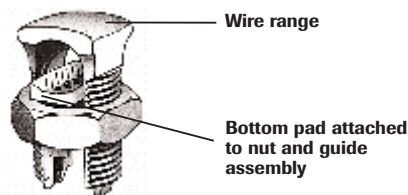


Model	Rod Dia. (In.)	Wire Range	Dimensions (Inches)			Cat. No.
			H	W	L	
G-5	5/8	2 – 10	2	7/8	5/8	87-858



Type K Split Bolts for Copper Connections

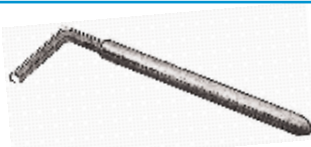
- High-strength copper alloy construction (nut, bolt and body)
- UL 486A Listed



Model	Range for Equal Run & Tap	Min. Tap with Max. Run	Cat. No.
K-10	10 str. – 12 str.	16 str.	87-650
K-8	8 str. – 10 str.	14 str.	87-651
K-6	6 sol. – 8 str.	14 str.	87-652
K-4	4 sol. – 8 str.	14 str.	87-653
K-3	2 sol. – 6 str.	14 str.	87-654
K-2	2 str. – 6 str.	14 str.	87-655
K-1/0	1/0 str. – 4 str.	14 str.	87-656
K-2/0	2/0 str. – 2 str.	14 str.	87-657
K-3/0	3/0 str. – 1 str.	8 sol.	87-658
K-250	250 KCMIL – 1 str.	8 str.	87-660
K-350	350 KCMIL – 1/0 str.	1/0 str.	87-661
K-500	500 KCMIL – 2/0 str.	2/0 str.	87-662
K-750	750 KCMIL – 4/0 str.	4/0 str.	87-663



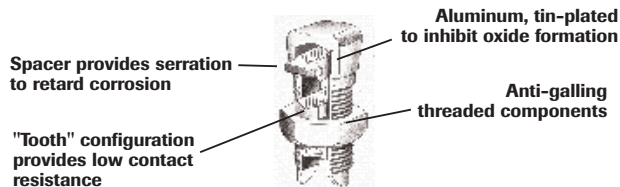
Hex Wrenches



Model	Hex.	Length (Inches)	Cat. No.
WR-516	5/16	9	87-396
WR-38	3/8	10	87-397

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

- UL 486B Listed AL9CU

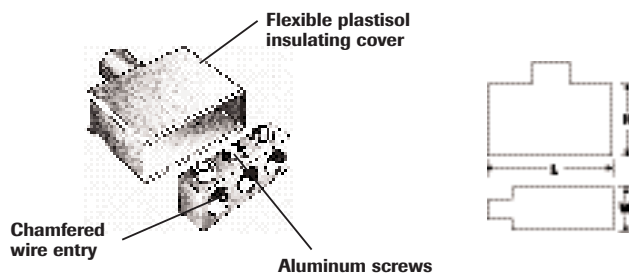


Model	Wire Range				Cat. No.
	Run		Tap		
	Max.	Min.	Max.	Min.	
AS-6	6 str.	10 sol.	6 str.	10 sol.	87-681
AS-4	4 str.	8 sol.	4 str.	10 sol.	87-682
AS-2	2 str.	6 sol.	2 str.	8 str.	87-683
AS-1/0	1/0 str.	2 compact	1/0 str.	8 sol.	87-685
AS-2/0	2/0 str.	2 compact	2/0 str.	8 str.	87-686
AS-4/0	4/0 str.	2 compact	4/0 str.	6 str.	87-687
AS-350	350 KCMIL	1/0 compact	350 KCMIL	4 str.	87-689
AS-500	500 KCMIL	400 compact	500 KCMIL	2 compact	87-691



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

- UL 486A Listed (Lug only)



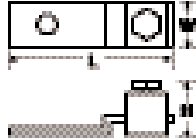
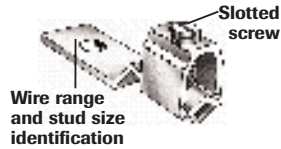
Model	Wire Range	No. of Cond.	Dimensions (Inches)			Cat. No.
			L	W	H	
SLK-1/0	1/0 – 14 AWG	3	2	1-3/16	2-3/16	88-100



Powr-Connect™ Mechanical Solderless Lugs

Single-Hole Solderless Lugs for Copper Conductors (Offset)

- Electrolytic copper construction
- UL 486A listed



Model	Wire Range	Stud Size (In.)	Dimensions (Inches)			Cat. No.
			L	W	H	
CF-25*	10 – 14 AWG	#8	1	5/16	3/8	87-700
CF-35	6 – 14 AWG	3/16	1-3/32	3/8	3/4	87-701
CF-70	4 – 14 AWG	1/4	1-5/16	1/2	13/16	87-702
CF-90	2 – 8 AWG	1/4	1-15/32	1/2	1	87-703
CF-125	1/0 – 2 AWG	1/4	1-13/16	5/8	1-11/32	87-704
CF-175	3/0 – 2 AWG	3/8	2-3/64	3/4	1-9/16	87-705
CF-225	4/0 – 2 AWG	5/16	2-5/8	1	1-13/16	87-706

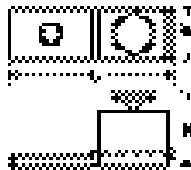
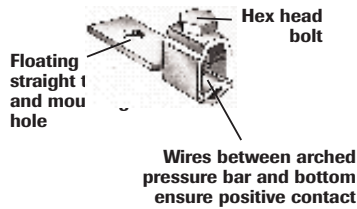
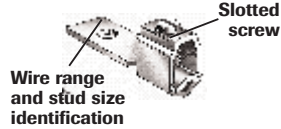
*Not CSA Certified



Mechanical Lugs

Single-Hole Solderless Lugs for Copper Conductors (Straight)

- Electrolytic copper construction
- UL 486A Listed

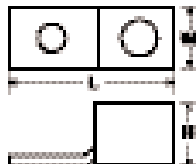


Model	Wire Range	Stud Size (In.)	Dimensions (Inches)			Cat. No.
			L	W	H	
CFS-35	6 – 14 AWG	3/16	1-9/64	3/8	11/16	87-721
CFS-70	4 – 14 AWG	1/4	1-1/4	1/2	27/32	87-722
CFS-90	2 – 8 AWG	1/4	1-15/32	1/2	31/32	87-723
CFS-175	3/0 – 2 AWG	3/8	2-1/4	3/4	1-9/16	87-725
CFS-225	4/0 – 2 AWG	5/16	2-3/8	1	1-21/32	87-726



Single-Hole Solderless Lugs for Copper Conductors

- Electrolytic copper construction
- UL 486A Listed

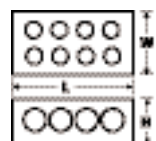
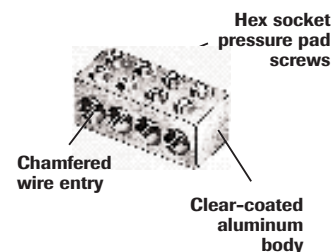
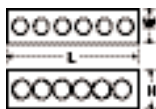
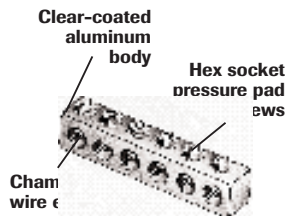


Model	Wire Range	Stud Size (In.)	Dimensions (Inches)			Cat. No.
			L	W	H	
FT-65	6 – 14 AWG	3/16	1	3/8	3/4	87-736
FT-90	1/0 – 14 AWG	1/4	1-17/64	5/8	1	87-738



Dual-Rated (Al/Cu) Above-Ground Transformer Connectors

- Clear-coated, high-strength aluminum alloy construction

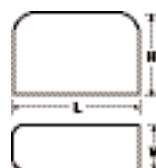
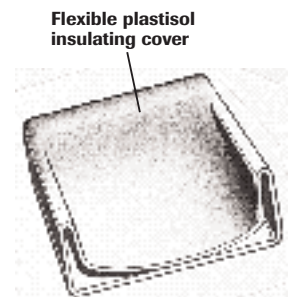


Model	Wire Range	No. of Wires	Dimensions (Inches)			Cat. No.
			L	W	H	
NA250-4	250 KCMIL – 6 AWG	4	3-5/8	7/8	1-1/8	88-103
NA250-6	250 KCMIL – 6 AWG	6	5-3/8	7/8	1-1/8	88-104
NA350-4	350 KCMIL – 6 AWG	4	3-27/32	1	1-3/8	88-106
NA350-6	350 KCMIL – 6 AWG	6	5-21/32	1	1-3/8	88-107
NA350-8	350 KCMIL – 6 AWG	8	7-15/32	1	1-3/8	88-108
NA500-4	500 KCMIL – 2 AWG	4	4-27/32	1	1-5/8	88-109
NA500-6	500 KCMIL – 2 AWG	6	7-7/32	1	1-5/8	88-110
NA500-8	500 KCMIL – 2 AWG	8	9-19/32	1	1-5/8	88-111



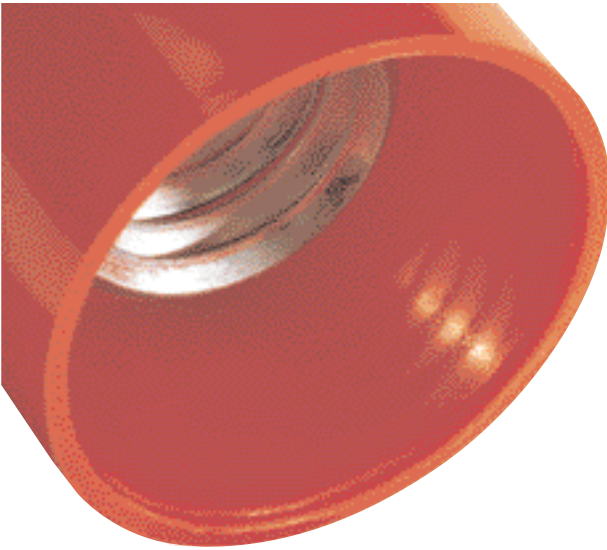
Insulating Covers for Above-Ground Transformer Connectors

- Clear-coated, high-strength aluminum alloy construction
- Sizes to fit all connectors

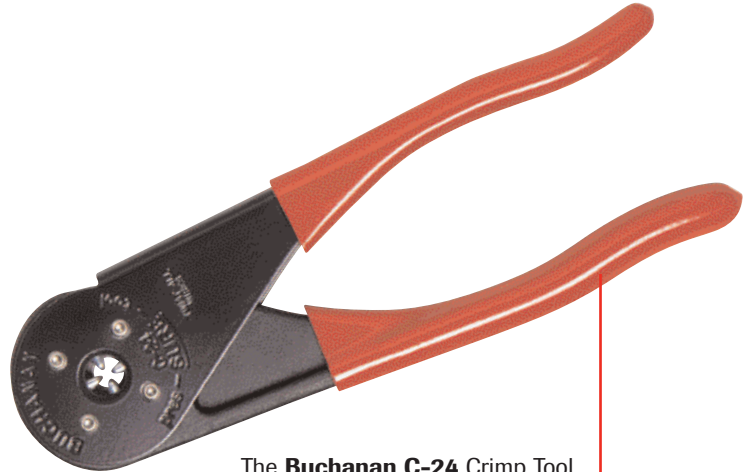


Model	Dimensions (Inches)			Cat. No.
	L	W	H	
NC4-250	3-7/8	1-19/32	3-3/8	88-136
NC6-250	5-23/32	1-19/32	3-3/8	88-137
NC8-250	7-17/32	1-19/32	3-3/8	88-138
NC4-350	4-1/8	1-27/32	3-3/8	88-139
NC6-350	6	1-27/32	3-3/8	88-140
NC4-500	5-5/32	2-3/16	3-3/8	88-152
NC6-500	7-5/8	2-3/16	3-3/8	88-153
NC8-500	10-3/32	2-3/16	3-3/8	88-154

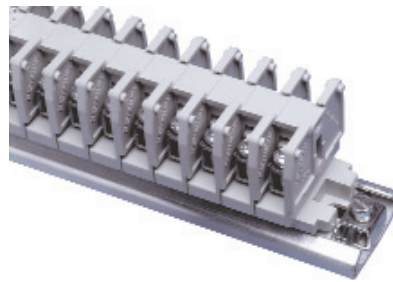
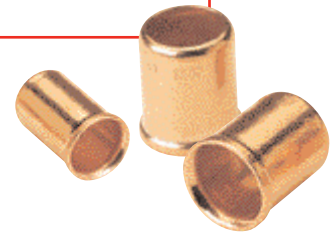
No cover available for ND-750 models



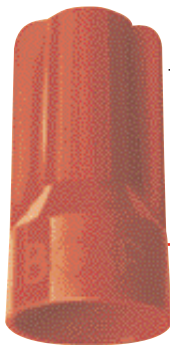
Our **wedge-edge** expanding spring is specially designed for faster pull-up and quick connections. It also accommodates a wide range of wire gauges.



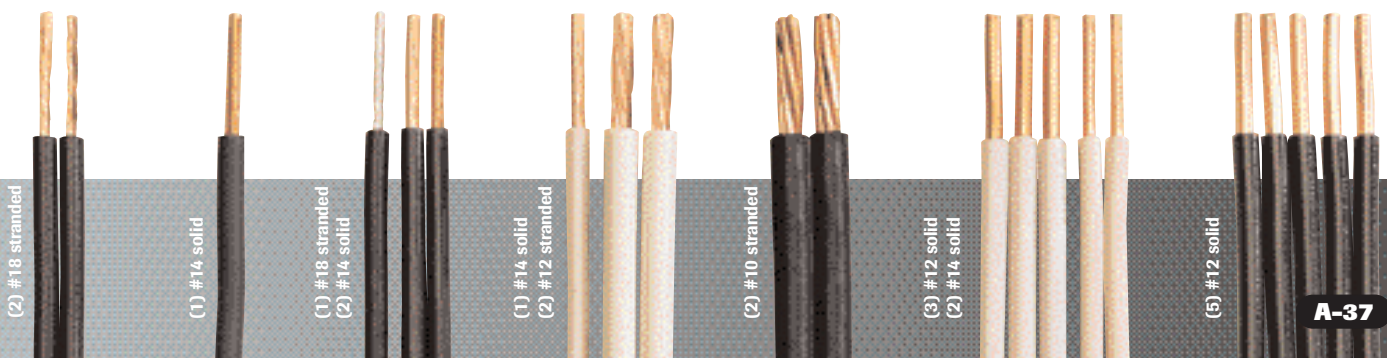
The **Buchanan C-24** Crimp Tool has an iron-clad reputation that's up to every job, every time. A patented four-way crimp ensures reliable connections, while the spring-loaded, cam-actuated design fits a wide range of connectors.



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

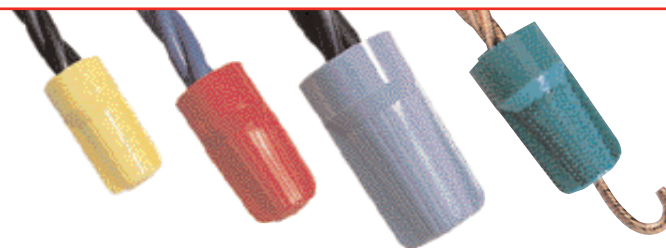


The **B2 B-CAP®** Wire Connector is the universal connector that accepts the widest range of wire combinations. Plus, the Classic Fin™ ergonomic design fits easily in tight electrical boxes.



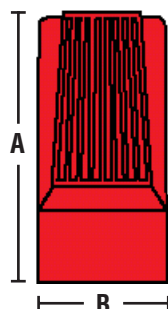
B-CAP® Wire Connectors

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

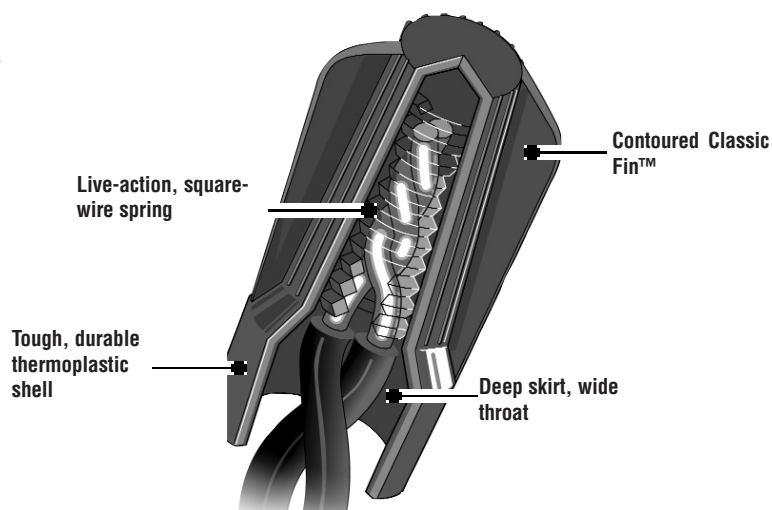


Twist-on Wire Connectors

Dimensions (Inches / mm)



Model	A	B
B1	$\frac{31}{32}$ 24.5	$\frac{15}{32}$ 12
B2	$\frac{1-5}{32}$ 29.5	$\frac{9}{16}$ 14
B4	$\frac{1-1}{2}$ 38	$\frac{3}{4}$ 19
BGR	$\frac{1-5}{32}$ 29.5	$\frac{9}{16}$ 14



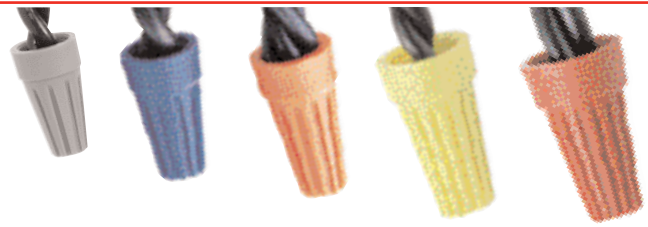
Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	Cat. No.
B1	Yellow	600V* 22 to 10 AWG Min. 2 #18 Max. 3 #12	600V* ,34mm ² to 6,0mm ² Min. 2-,75mm ² Max. 3-4,0mm ²	100 / Box	B1-1
				250 / Jar	B1-250JR
				500 / Jar	B1-500JR
				2,500 / Bucket (5 bags, 500 ea.)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

*1,000V maximum in fixtures and signs

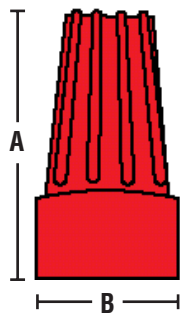


WireTwist™ Wire Connectors

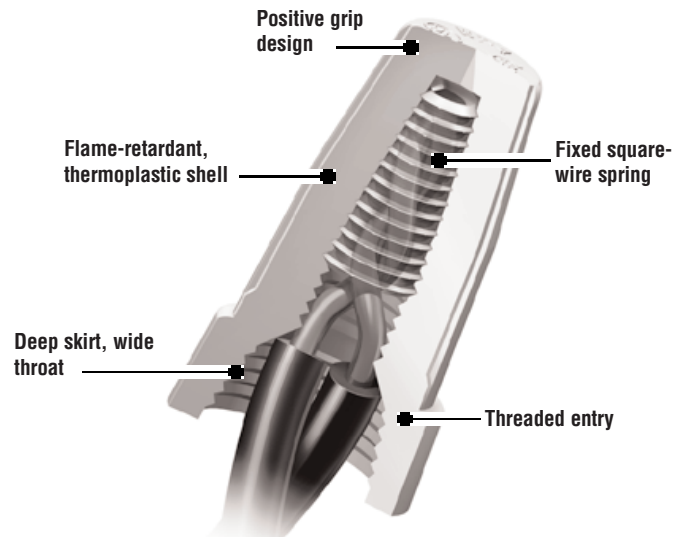
- Five color-coded models cover common construction wire ranges
- Ribbed cap provides positive grip for fast, easy installation
- Fixed, square-wire spring threads itself creating a secure pressure grip
- Deep, wide-throated skirt protects against flash-over and turned-back strands for maximum dielectric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



Dimensions (Inches / mm)



Model	A	B
WT1	$\frac{37}{64}$ 15	$\frac{21}{64}$ 8
WT2	$\frac{45}{64}$ 18	$\frac{25}{64}$ 10
WT3	$\frac{55}{64}$ 22	$\frac{7}{16}$ 11
WT4	$\frac{61}{64}$ 24	$\frac{35}{64}$ 14
WT6	$\frac{1-1}{16}$ 27	$\frac{21}{32}$ 17



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

*1,000V maximum in fixtures and signs

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



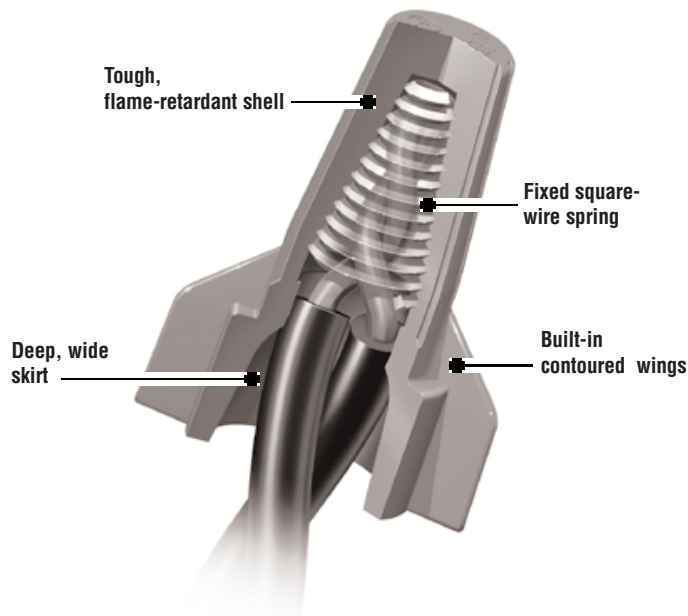
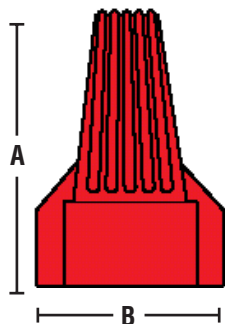
WingTwist™ Wire Connectors

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



Dimensions (Inches / mm)

Model	A	B
WT51	$\frac{1-1/32}{26}$	$\frac{23/32}{18}$
WT52	$\frac{1-1/4}{32}$	$\frac{29/32}{23}$
WT53	$\frac{1-5/16}{33}$	$\frac{1}{25}$
WT54	$\frac{1-9/16}{40}$	$\frac{1-15/64}{31}$
WGR	$\frac{1-5/32}{29.5}$	$\frac{7/8}{22}$



Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	BUCHANAN Cat. No.	IDEAL 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	100 / Box	WT51-1	30-WT51C
				500 / Bag	WT51-B	30-WT51B
				500 / Jar	WT51-500JR	30-WT51J
				25,000 / Barrel	WT51-SK	30-886
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	100 / Box	WT41-1	30-WT41C
				500 / Bag	WT41-B	30-WT41B
				500 / Jar	WT41-500JR	30-WT41J
				25,000 / Barrel	WT41-SK	30-885
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	100 / Box	WT52-1	30-WT52C
				500 / Bag	WT52-B	30-WT52B
				500 / Jar	WT52-500JR	30-WT52J
				25,000 / Barrel	WT52-SK	30-887
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	50 / Box	WT54-1	30-WT54C
				100 / Bag	WT54-B	30-WT54B
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	50 / Box	WGR-1	30-WGRC
				250 / Bag	WGR-B	30-WGRB
				500 / Jar	WGR-500JR	30-WGRJ
				25,000 / Barrel	WGR-SK	30-890
WT5	Assortment**	See WT51 & WT52 above	See WT51 & WT52 above	(75 Yellow, 75 Red)/Jar	WT5152JR	—

*1,000V maximum in fixtures and signs

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



Splice Cap Crimp Connectors

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



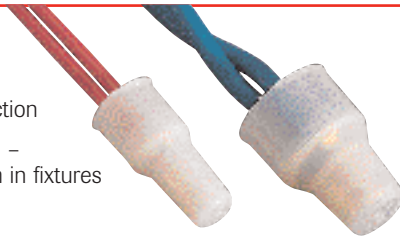
Description	Wire Combination Range (Inches)	Quantity / Package	Cat. No.
Copper Crimp Connector	600V* 18 to 10 AWG Min. 2 #18 Max. 4 #12	100 / Box	2006S
		1,000 / Bag	2006SB
Copper Crimp Connector	600V* 14 to 4 AWG Min. 2 #10 Max. 2 #6	50 / Box	2011S
		500 / Bag	2011SB

*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)



For Connector Model	Quantity / Package	Cat. No.
2006S & 2008S	100 / Box	2007
	1,000 / Bag	2007B
2011S	50 / Box	2014
	500 / Bag	2014B

Termend® Lugs

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



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

Four-Way Crimp Tool

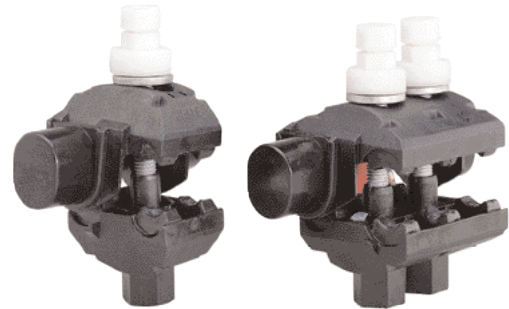
- Patented design ensures even compression and reliable connectors
- Spring-loaded, cam-actuated plungers
- Fingertip adjustment for different connector sizes



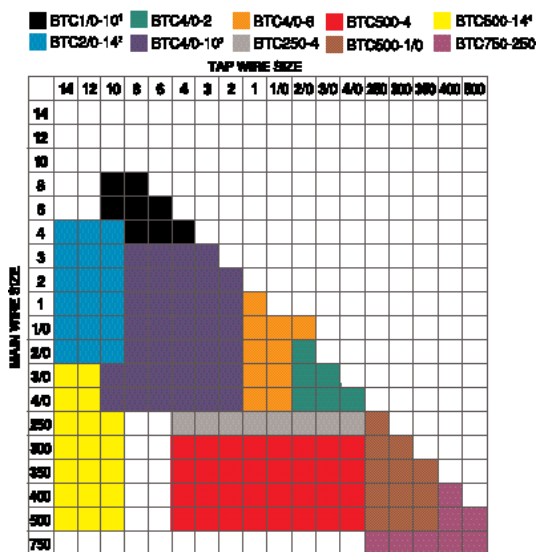
Description	Cat. No.
Four-Way Crimp Tool	C-24

B-TAP® Insulation-Piercing Tap Connectors

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

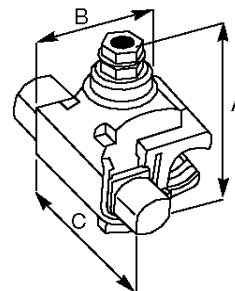
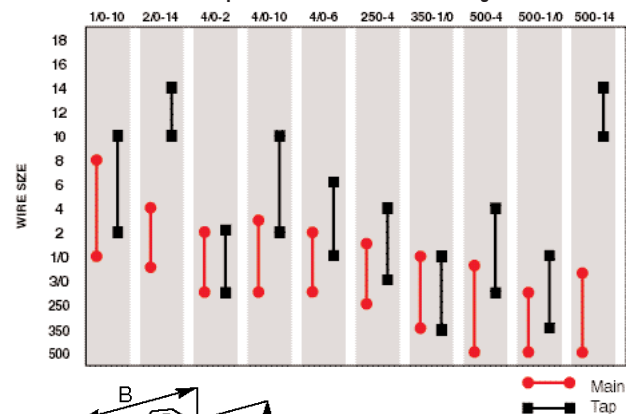


Suggested Models Based on Specific Main and Tap Wire Sizes



To determine the most appropriate B-TAP® Connector for a specific main and tap combination, find the shaded box where the main wire size (horizontal) and tap wire size (vertical) intersect. The color of this box indicates the suggested connector for this pair of wires.

B-Tap® Connector Model Wire Ranges



Conductor Range		Voltage Rating	Dimensions (Inches)			Socket Size (Inches)	Torque (In. Lbs.)	No. of Bolts	Cat. No.
Run	Tap		A	B	C				
1/0-8	2-10 ¹	600V	3.1	1.8	2.2	1/2	80	1	BTC1/0-10
2/0-4	10-14 ²	600V	3.1	1.8	2.2	1/2	80	1	BTC2/0-14
4/0-2	4/0-2	600V	3.3	2.3	3.5	1/2	160	2	BTC4/0-2
4/0-3	2-10 ³	600V	3.1	1.8	2.2	1/2	125	1	BTC4/0-10
4/0-2	2/0-6	600V	3.5	2.2	2.5	1/2	160	1	BTC4/0-6
250-1	4/0-4	600V	3.5	2.2	2.5	1/2	160	1	BTC250-4
350-1/0	350-1/0	600V	4.5	3	3.9	5/8	330	2	BTC350-1/0
500-2/0	4/0-4	600V	4.5	3	3.9	5/8	330	2	BTC500-4
500-4/0	350-1/0	600V	4.5	3	3.9	5/8	330	2	BTC500-1/0
500-2/0	10-14 ⁴	600V	3.7	2.5	2.2	1/2	80	1	BTC500-14
750-250	500-250	600V	4.7	3.4	4.75	5/8	330	2	BTC750-250
Assortment*									BTCA-2

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

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

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

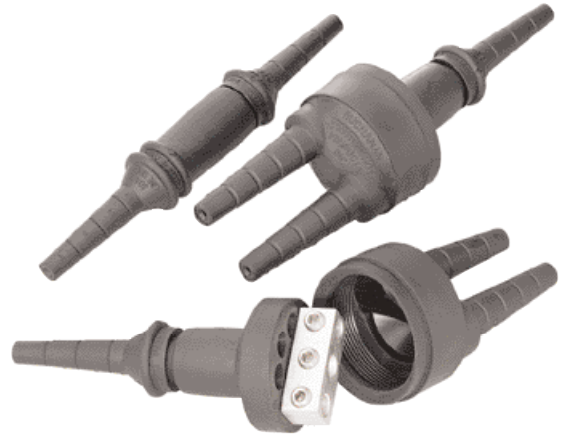
³ Tap #2 - #10 Cu solid/stranded; #2 - #8 Al stranded

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



Waterproof Breakaway Steetlight Connector & Splice Insulating Kits

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



Application Guide

Examples of Several Kit Configurations

For Poles with Transformer Bases, Standard Bases and Junction Boxes

Underground Feed Phase to Phase

Configurations

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

Comments

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

Underground Feed Phase to Neutral

Configurations

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

Comments

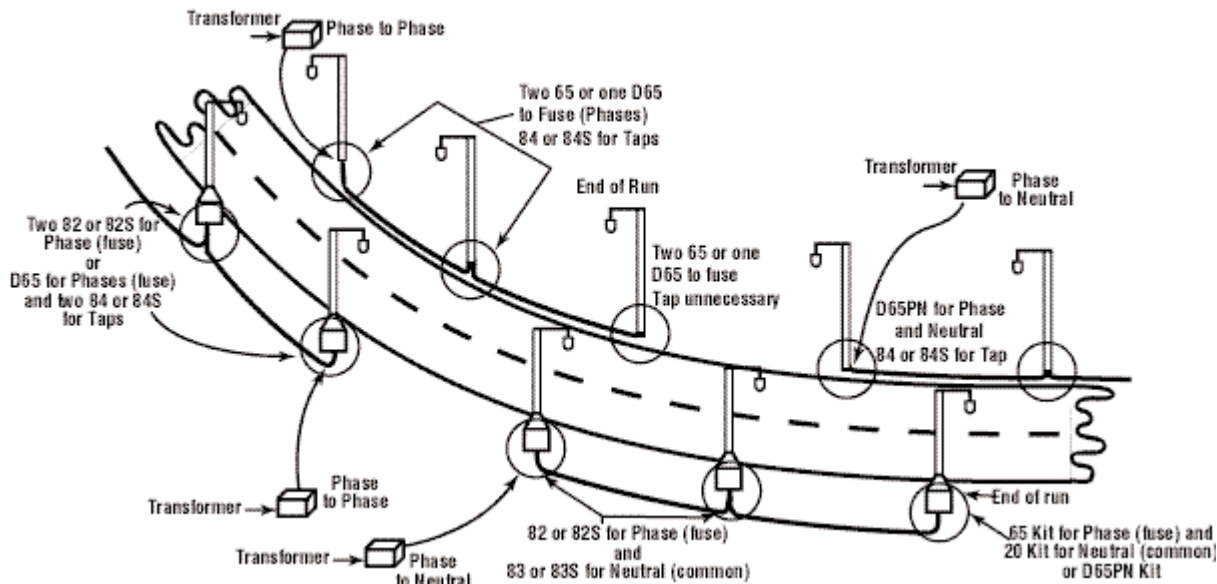
Recommended configuration
Cost-effective
Non-breakaway, small gauge (8 AWG and above).
See Wire Connector section.

For Lights Mounted to Utility Poles, etc...

Overhead Feed

- Two B-Tap® Insulation Piercing Connectors for phase and/or tap (for insulated conductors only)

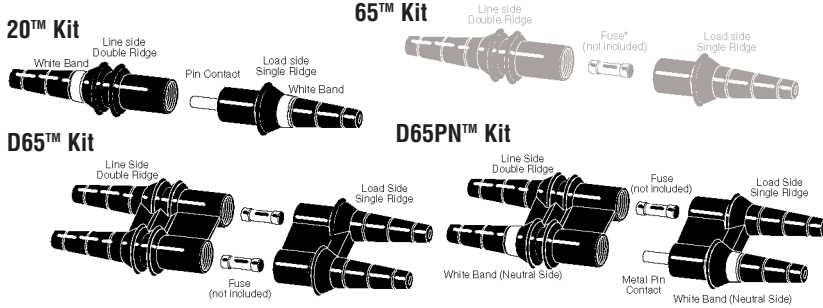
Recommended configuration, see B-Tap® Insulation Piercing Connectors in this catalog.



Ordering Information

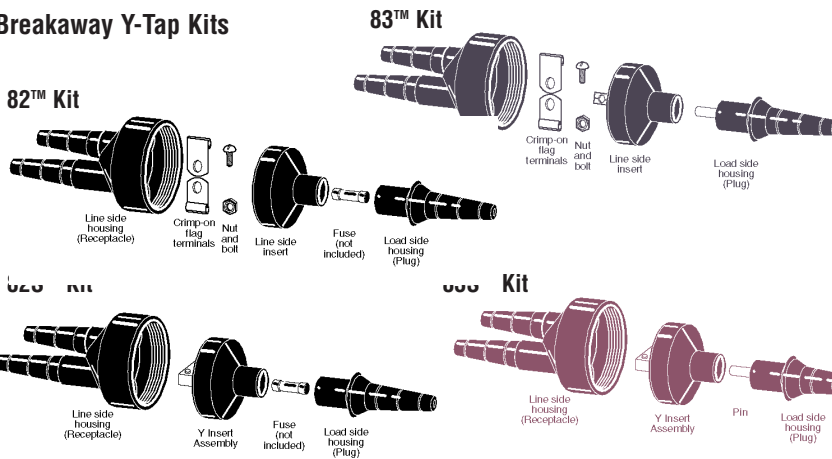
Use the following chart and table to determine the correct part number by choosing model, line side, and load side ordering codes from the shaded columns. See example below, right (Page A-45).

Breakaway In-Line Kits



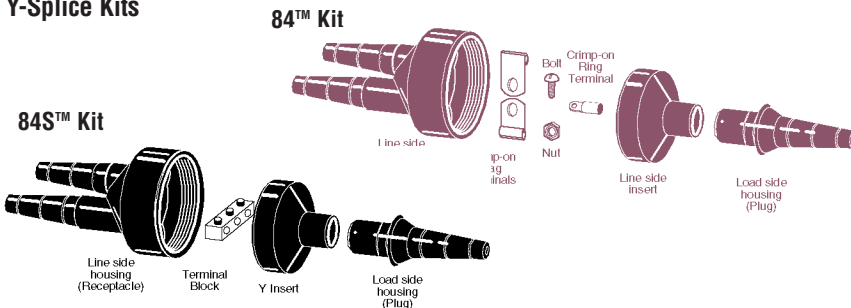
MODEL		
Application	Electrical Rating	Ordering Code
In-Line Neutral Non-Fused Breakaway	30 Amp 600 Volt	20 –
In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	65 –
Dual In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	D65 –
Dual In-Line Phase & Neutral Fused Breakaway	1/10-30 Amp Phase 30 Amp Neutral 600 Volt	D65PN –

Breakaway Y-Tap Kits



Application	Electrical Rating	Ordering Code
Crimped Phase Fused Tap & Run	1/10-30 Amp 600 Volt	82 –
Crimp Neutral Non-Fused Tap & Run	125 Amp Line 30 Amp Load 600 Volt	83 –
Set Screw Phase Fused Tap & Run	1/10-30 Amp 600 Volt	82S –
Set Screw Neutral Non-Fused Tap & Run	70 Amp Line 30 Amp Load 600 Volt	83S –

Y-Splice Kits



Application	Electrical Rating	Ordering Code
Crimp Splice Tap & Run	150 Amp 600 Volt	84 –
Set Screw Splice Tap & Run	70 Amp 600 Volt	84S –

Excerpts of the 1996 NEC Tables 5 & 5A Dimensions of Insulated Conductors and Fixture Wires

Size (AWG)	Approx. Diameter in Inches for Insulation Types:						Approx. Diameter in Inches for Compact AL with Insulation Types:		
	RHH	RHW-2, RHW	TW	THW, THW-2	THHN, THWN-2	XHHW, XHHW-2	THW, THHW	THHN	XHHW
14	0.163	0.193	0.133	0.163	0.111	0.133	—	—	—
12	0.182	0.212	0.152	0.182	0.130	0.152	—	—	—
10	0.236	0.236	0.176	0.206	0.164	0.176	—	—	—
8	0.326	0.326	0.236	0.266	0.216	0.236	0.255	—	0.224
6	0.364	0.364	0.304	0.304	0.254	0.274	0.290	0.240	0.260
4	0.412	0.412	0.352	0.352	0.324	0.322	0.335	0.305	0.305
3	0.440	0.440	0.380	0.380	0.352	0.350	—	—	—
2	0.472	0.472	0.412	0.412	0.384	0.382	0.390	0.360	0.360
1	0.582	0.582	0.492	0.492	0.446	0.442	0.465	0.415	0.415
1/0	0.622	0.622	0.532	0.532	0.486	0.482	0.500	0.450	0.450

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

Wire Termination

LINE SIDE			
Insulation Diameter Range (Inches)	Stranded* Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)
.120-.430	12-6	Copper Crimp	U –
	12-6	Aluminum Crimp	UA –
	4 or 2	Copper Crimp	LC –
	4 or 2	Aluminum Crimp	LA –

LOAD SIDE				
Insulation Diameter Range (Inches)	Equivalent Conductor (See Table)	Stranded* Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)
.120-.430	1	12-6	Copper Crimp	U
		12-6	Aluminum Crimp	UA
		4 or 2	Copper Crimp	LC
		4 or 2	Aluminum Crimp	LA

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.

Insulation Diameter Range (Inches)	Ordering Code (CHOOSE 1)	Stranded* Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)	Insulation Diameter Range (Inches)	Equivalent Conductor (See Table)	Stranded* Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)
.155-.430	ADB	10	Copper Crimp	6 –	.120 -.430	1	12-6	Copper Crimp	C
		8	Copper Crimp	4 –			12-6	Aluminum Crimp	A
		6	Copper Crimp	3 –			4 or 2	Copper Crimp	LC
		4	Copper Crimp	2 –					
.420-.785	EAFB	2	Copper Crimp	1 –	.120 -.430	1	12-6	Aluminum Crimp	A
		1	Copper Crimp	0 –			4 or 2	Copper Crimp	LC
		1/0	Copper Crimp	10 –			4 or 2	Aluminum Crimp	LA
.155-.430	ADB	10	Terminal Block with Set Screws Copper or Alum. Conductors	1 –	.120 -.430	1	12-6	Copper Crimp	C
		8		1 –			12-6	Aluminum Crimp	A
		6		1 –			4 or 2	Copper Crimp	LC
		4		1 –			4 or 2	Aluminum Crimp	LA
.420-.785	EAFB	2		1 –	.120 -.430	1	12-6	Aluminum Crimp	A
		1		0 –			4 or 2	Copper Crimp	LC
		1/0		10 –			4 or 2	Aluminum Crimp	LA

Insulation Diameter Range (Inches)	Ordering Code (CHOOSE 1)	Stranded* Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)	Insulation Diameter Range (Inches)	Equivalent Conductor (See Table)	Conductor Size (AWG)	Type	Ordering Code (CHOOSE 1)
.155-.430	ADB	10	Copper Crimp	6 –	.120 -.430	1	10	Copper Crimp	6
		8	Copper Crimp	4 –			8	Copper Crimp	4
		6	Copper Crimp	3 –			6	Copper Crimp	3
		4	Copper Crimp	2 –			4	Copper Crimp	2
.420-.785	EAFB	2	Copper Crimp	1 –	.120 -.430	1	2	Copper Crimp	1
		1	Copper Crimp	0 –			1	Copper Crimp	0
		1/0	Copper Crimp	10 –					
.155-.430	ADB	10	Terminal Block with Set Screws Copper or Alum. Conductors	1 –	.120 -.430	1	10-2	Terminal Block Copper or Aluminum Conductors	N/A
		8		1 –					
		6		1 –					
		4		1 –					
.420-.785	EAFB	2		1 –					
		1		0 –					
		1/0		10 –					



LR32565

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

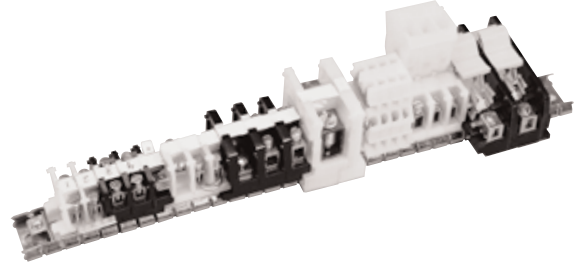
* For solid wire: 14-4 AWG, use codes U, UA, C, or A. 2 AWG, use codes LC or LA.

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.

Terminal Blocks

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

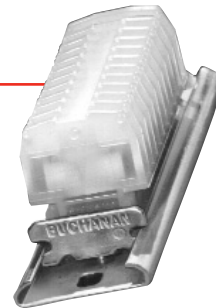


- Wide range of configurations to solve virtually any wiring need
- Wide wire ranges — 30 AWG to 250 KCMIL (MCM)
- Easy installation — connect and disconnect quickly making them perfect for maintenance and troubleshooting applications
- Versatile, accommodating sectional design
- Three housing options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

100 Series - Miniature (High Density)

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

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



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

WIRE RANGE: Solid or Stranded

Tubular Clamp

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

Terminal Block Specifications

100 Series	125	115
Housing Material	Nylon	
Maximum Service Temperature	125°C (257°F)	
Flammability	UL94V2	
Wire Strip Length (in.)	5/16	
Torque (lbs.)	6-9	
UL Rating	28A @ 300V	
Wire Range (AWG) Solid & Stranded	30-12	
Pitch (in.)	0.25	
Terminals per foot	48	

Miniature - Single Tier HIGH DENSITY

Flat Base

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

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

On Miniature #12 Channel:

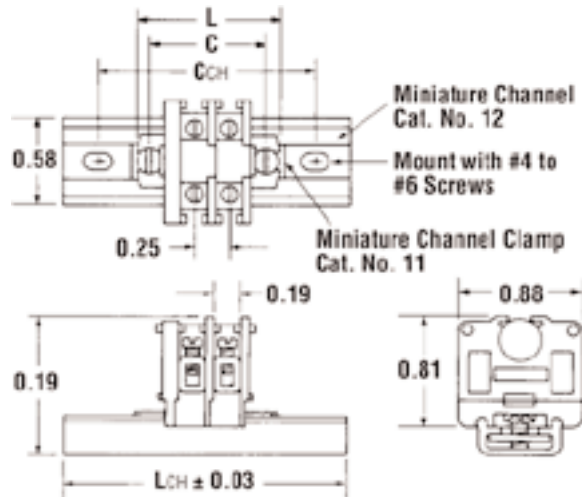
$$CCH = 1.00 + (.25 \times A)$$

$$LCH = 1.35 + (.25 \times A)$$

A = N when N is even

A = N + 1 when N is odd

N = Number of Miniature Sections



Dovetail Base

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

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

On Standard #60 Channel:

$$CCH = 2.00 + (.25 \times A)$$

$$LCH = 2.75 + (.25 \times A)$$

N = Number of Single Tier Sections

On Miniature #12 Channel:

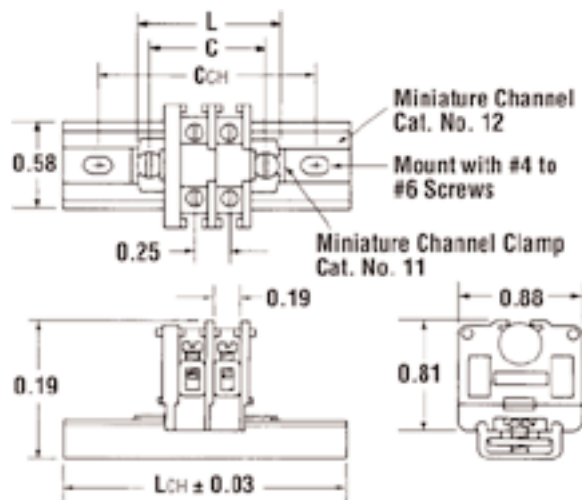
$$CCH = 1.00 + (.25 \times A)$$

$$LCH = 1.35 + (.25 \times A)$$

A = N when N is even

A = N + 1 when N is odd

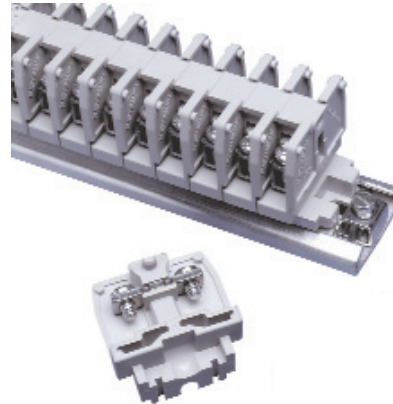
N = Number of Miniature Sections



900 Series Medium Duty

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

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



Specifications

Center-to-Center Spacing: .375 in.

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

Ampacity: #8 - #22 AWG

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

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



WIRE RANGE: Solid or Stranded

Strap Screw

1 #22 to 1 #14 AWG

Tubular Screw

1 #8 AWG, 1 #10 AWG, 1 to 3 #12 AWG, 1 to 4 #14 AWG, 1 to 4 #16 AWG, 1 to 5 #18 AWG, 1 to 10 #22 AWG

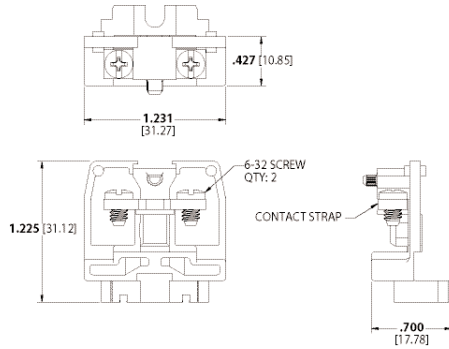
Tubular Clamp

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

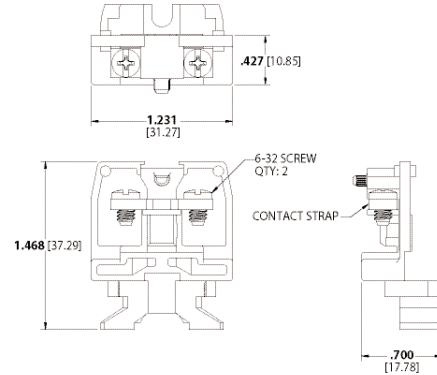
900 Series

Strap Screw

Direct Mount (Flat Base)

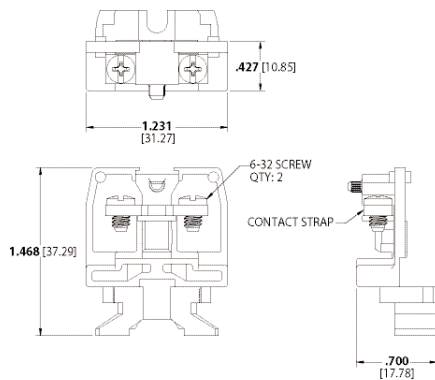


Channel Mount (Dovetail Base)

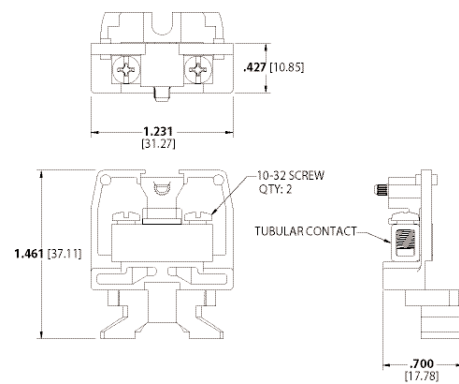


Tubular Screw/Tubular Clamp

Direct Mount (Flat Base)

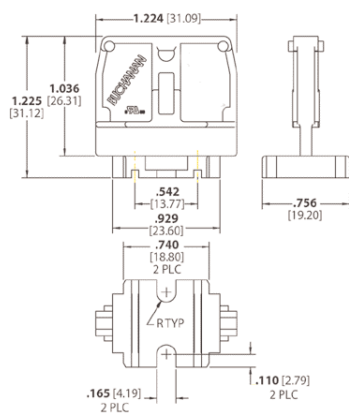


Channel Mount (Dovetail Base)

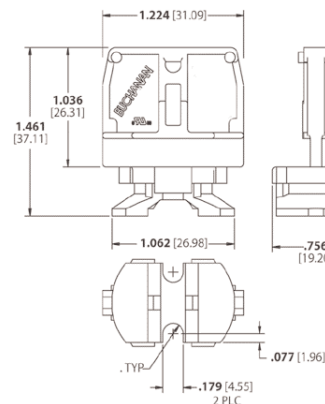


End Section

Direct Mount (Flat Base)



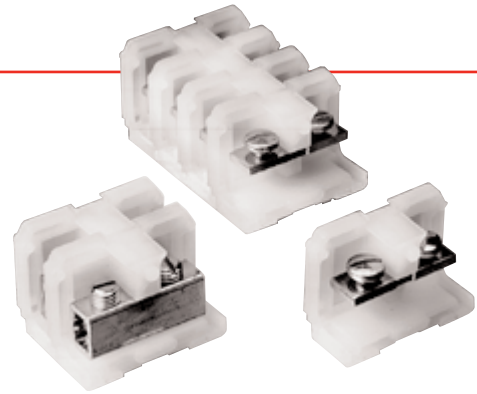
Channel Mount (Dovetail Base)



200 Series - Nylon HEAVY DUTY

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

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

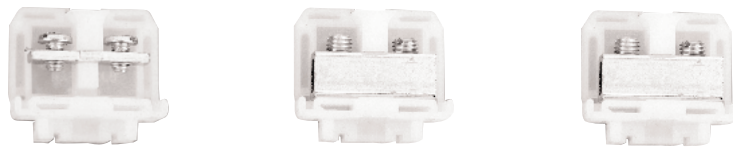


Specifications

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

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

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



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

Housing Material	Nylon, Type 6/6 unfilled
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	125°C (257°F)
Breakdown Voltage AC, 60Hz	7000V
Dielectric Strength (RH40% at sea level)	470-385 V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	0.1 - .35
Water Absorption (24 hrs. % weight gain)	1.5%
Flammability	94V-2 (per UL94)
Chemical Resistance	Resistant to aromatic hydrocarbons, strong alkalis
Radiation Resistance (ergs g ⁻¹ C)	8 x 10 ⁷

WIRE RANGE: Solid or Stranded

Strap Screw

1 #22 to 1 #10 AWG

Tubular Screw

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

Tubular Clamp

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



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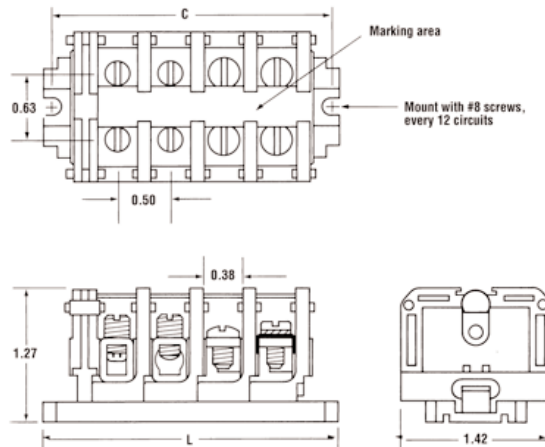
200 Series - Nylon HEAVY DUTY

Flat Base (Direct Mount)

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

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

N = Number of circuits

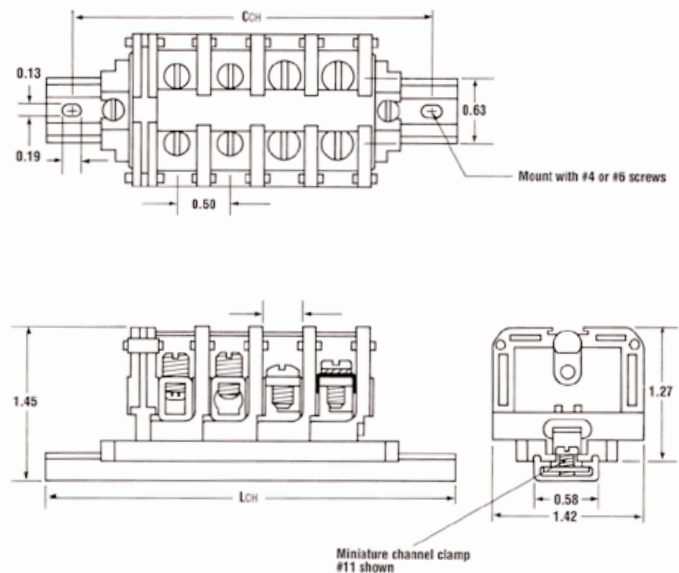


Flat Base Mounted on #12 Miniature Channel

$$LCH = 1.85 + (.50 \times N)$$

$$CCH = 1.50 + (.50 \times N)$$

N = Number of Circuits

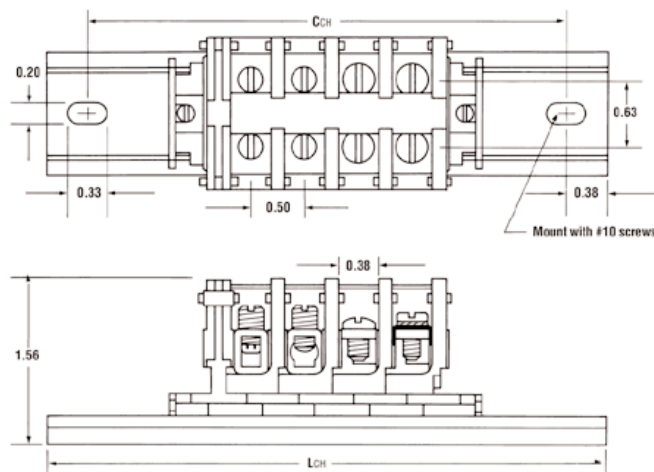
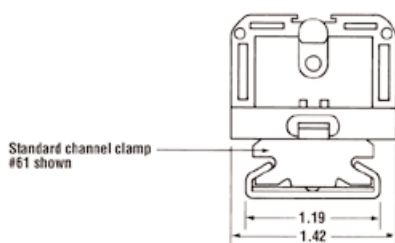


Dovetail Base Mounted on Standard #60 Channel

$$LCH = 3.03 + (.50 \times N)$$

$$CCH = 2.28 + (.50 \times N)$$

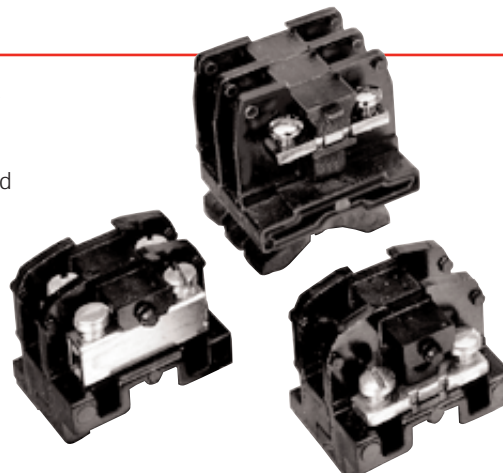
N = Number of circuits



200 Series - Phenolic HEAVY DUTY

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

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



Specifications

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

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

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



Catalog Number	221	0221	222	0222	223	0223	230	0230
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End-Section (Direct Mount)	End-Section (Channel Mount)
Ampacity	35A		85A		65A		—	—
Contact Type	Strap Screw		Tubular Screw		Tubular Clamp		—	—
Screw Type	10-32 Slotted Binding Head		1/4-28 Slotted Headless		1/4-28 Slotted Headless		—	—
Wire Range (AWG)	#22 to #10		#18 to #4		#18 to #6		—	—
Wire Strip Length	—		1/2 in.		1/2 in.		—	—

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	7000V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.49 - .59
Water Absorption (24 hrs. % weight gain)	45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistant to acids, alkalies, aliphatic hydrocarbons and ketones (per ASTM D5343)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁶ min.

WIRE RANGE: Solid or Stranded

Strap Screw

1 #18 to 1 #8 AWG

Tubular Screw

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

Tubular Clamp

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



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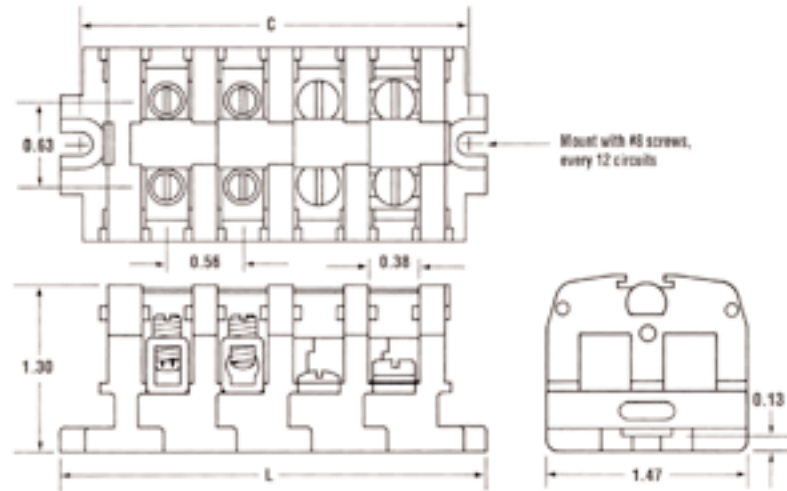
200 Series - Phenolic HEAVY DUTY

Flat Base (Direct Mount)

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

$$L = .81 + (.57 \times N)$$

N = Number of circuits

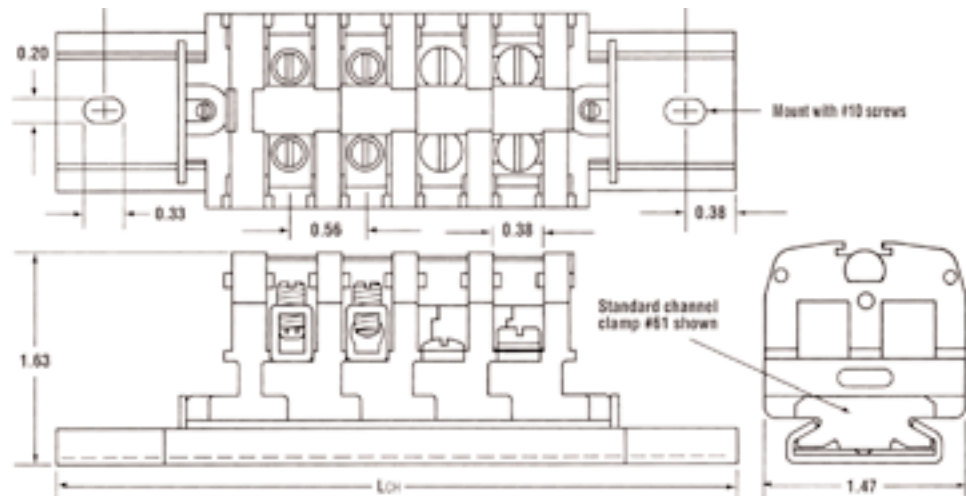


Dovetail Base Mounted on Standard #60 Channel

$$CCH = 2.31 + (.57 \times N)$$

$$LCH = 3.06 + (.57 \times N)$$

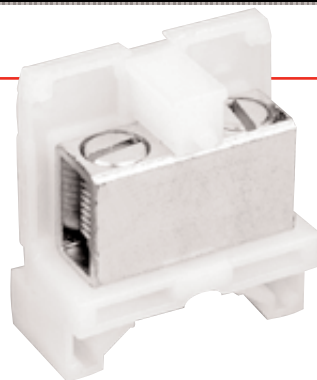
N = Number of circuits



Nylon INTERMEDIATE HEAVY DUTY

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

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



Specifications

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

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

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

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

Housing Material	Nylon, Type 6/6 Unfilled
Contact Material	Copper
Screw Material	Steel, Zinc-Plated
Maximum Service Temperature	125°C (257°F)
Breakdown Voltage AC, 60Hz	8800V
Dielectric Strength (RH40% at sea level)	470-385V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.01 - .35
Water Absorption (24 hrs. % weight gain)	1.5%
Flammability	94V-2
Chemical Resistance	Resistant to aromatic hydrocarbons, strong alkalies
Radiation Resistance (ergs g ⁻¹ C)	8 x 10 ⁷

WIRE RANGE: Solid or Stranded

Tubular Screw

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



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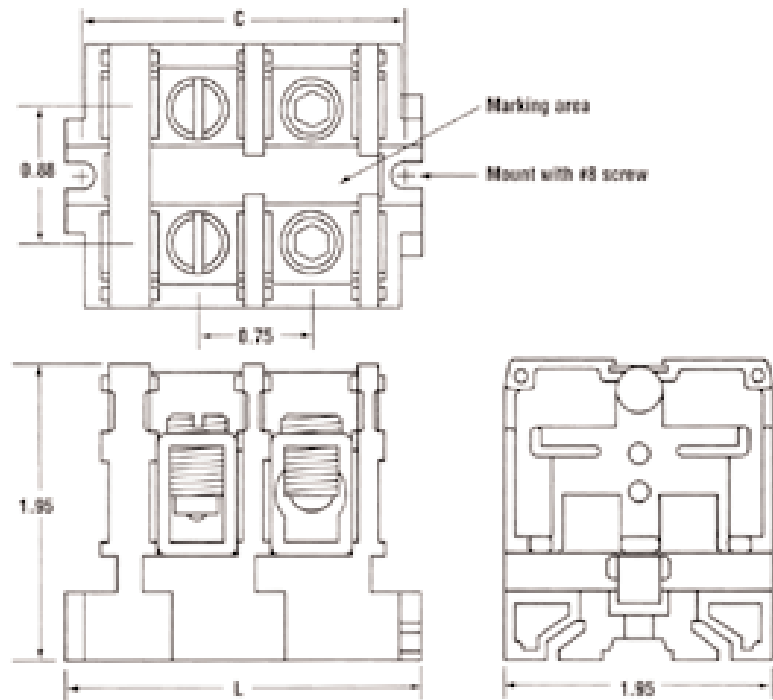
Phenolic HEAVY DUTY

Flat Base (Direct Mount)

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

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

N = Number of circuits

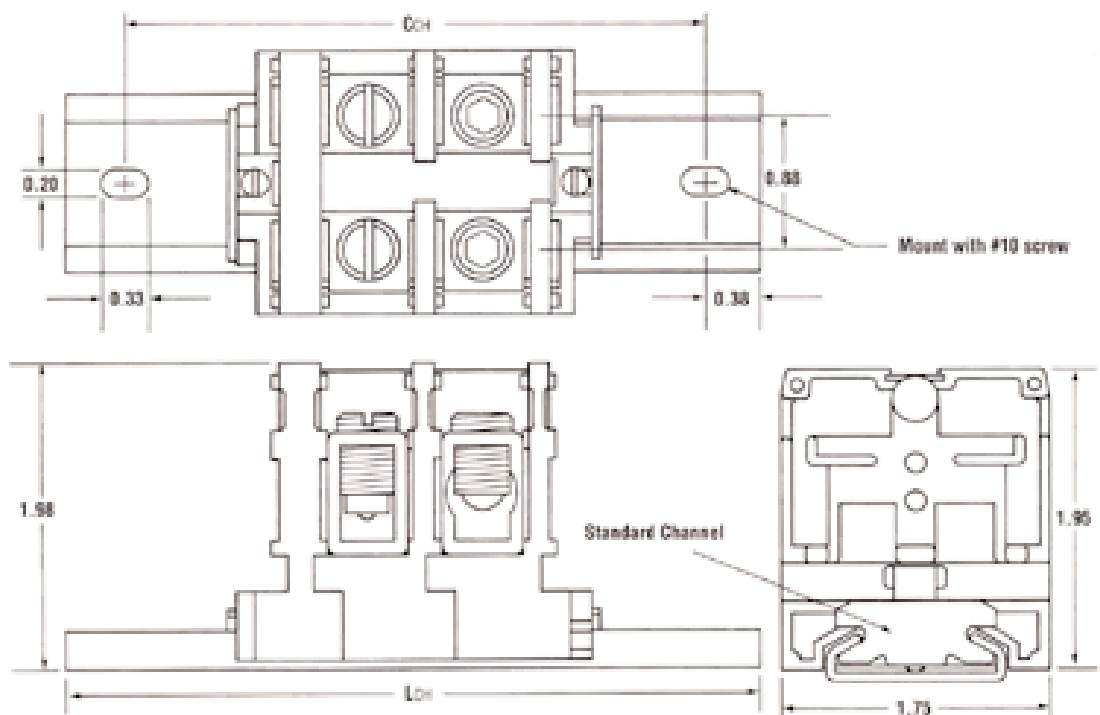


Dovetail Base Mounted on Standard #60 Channel

$$CCH = 2.31 + (.75 \times N)$$

$$LCH = 3.06 + (.75 \times N)$$

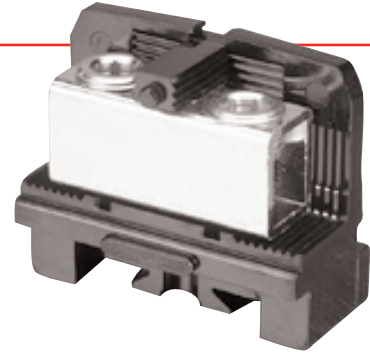
N = Number of circuits



Phenolic ULTRA HEAVY DUTY - 250 KCMIL (MCM)

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

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



Specifications

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

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

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

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

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	10000V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.49 - .58
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistant to acids, alkalis and aliphatic, hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁶ min.

WIRE RANGE: Solid or Stranded

Tubular Screw

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

Tubular Screw

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



LR25557



E63810

Phenolic HEAVY DUTY

Flat Base Mounted on Standard #60 Channel

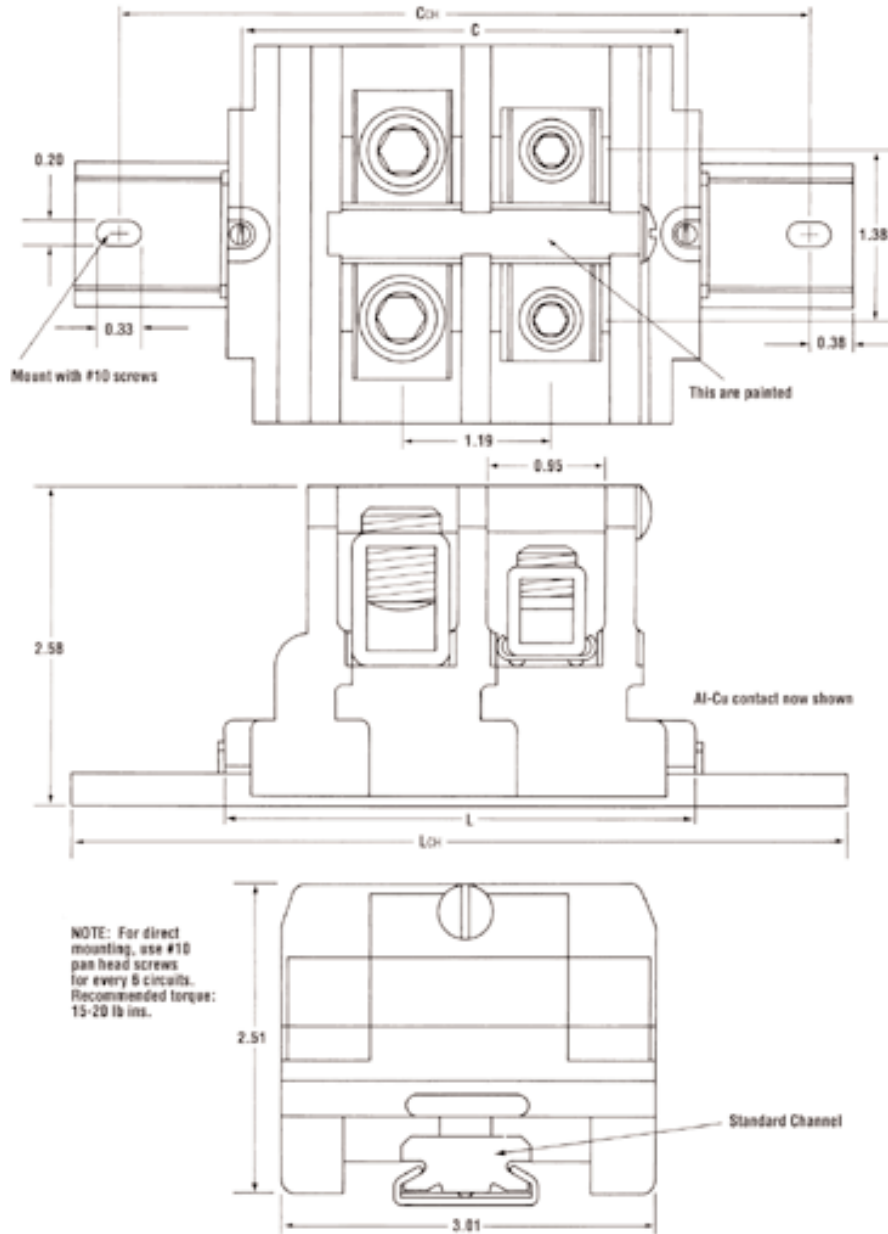
$$C = 1.19 + (1.19 \times N)$$

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

$$CCH = 2.90 + (2.90 \times N)$$

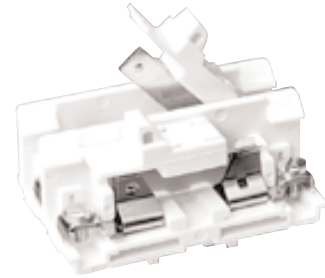
$$LCH = 3.65 + (3.65 \times N)$$

N = Number of circuits



Nylon 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
- Good circuit density when mounted adjacently – 91 circuits per 6 foot length
- Nylon housing for more rugged applications
- Dovetail base mounts on standard channel; can also be mounted on flat surfaces
- Only one end section needed per block assembly
- Open or close several circuits simultaneously – holes in puller handles allow use of nylon “ganging” rods
- Readily identifiable circuits – mark directly on white, matte-surface puller assembly, marking tab on block or use removable marking tape
- Sections snap-fit with Heavy Duty and Intermediate Heavy Duty Blocks



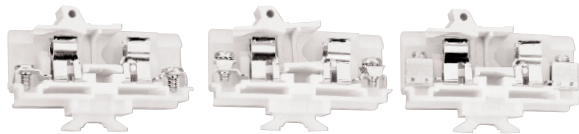
Specifications

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

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

Ampacity: Fuse blocks, 30A

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



Catalog Number	0311	0318	0312	0380
Mounting Style	Channel Mount (Dovetail Base)	Channel Mount (Dovetail Base)	Channel Mount (Dovetail Base)	End-Section
Ampacity	30A	30A	30A	—
Contact Type	Strap Screw	Strap Clamp	Tubular Screw	—
Screw Type	10-32 Binding Head	8-32 Pan Head w/Clamp	1/4-28 Set Screw	—
Wire Range (AWG)	#22 to #8	#18 to #8	#18 - #8	—
Wire Strip Length	—	1/2 in.	1/2 in.	—

Housing Material	Nylon
Contact Material	Aluminum Alloy
Screw Material	Steel Plated
Maximum Service Temperature	125°C (257°F)
Breakdown Voltage AC, 60Hz	7400V
Dielectric Strength (RH40% at sea level)	470-385V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.01 - .35
Water Absorption (24 hrs. % weight gain)	1.5% (per ASTM D570)
Flammability	94V-2 (per UL94)
Chemical Resistance	Resistance to aromatic hydrocarbons, strong alkalis
Radiation Resistance (ergs g ⁻¹ C)	8 x 10 ⁷

WIRE RANGE: Solid or Stranded

Tubular Screw

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



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Nylon Fuse Blocks

Dovetail Base Mounted on Standard #60 Channel (may also be mounted direct)

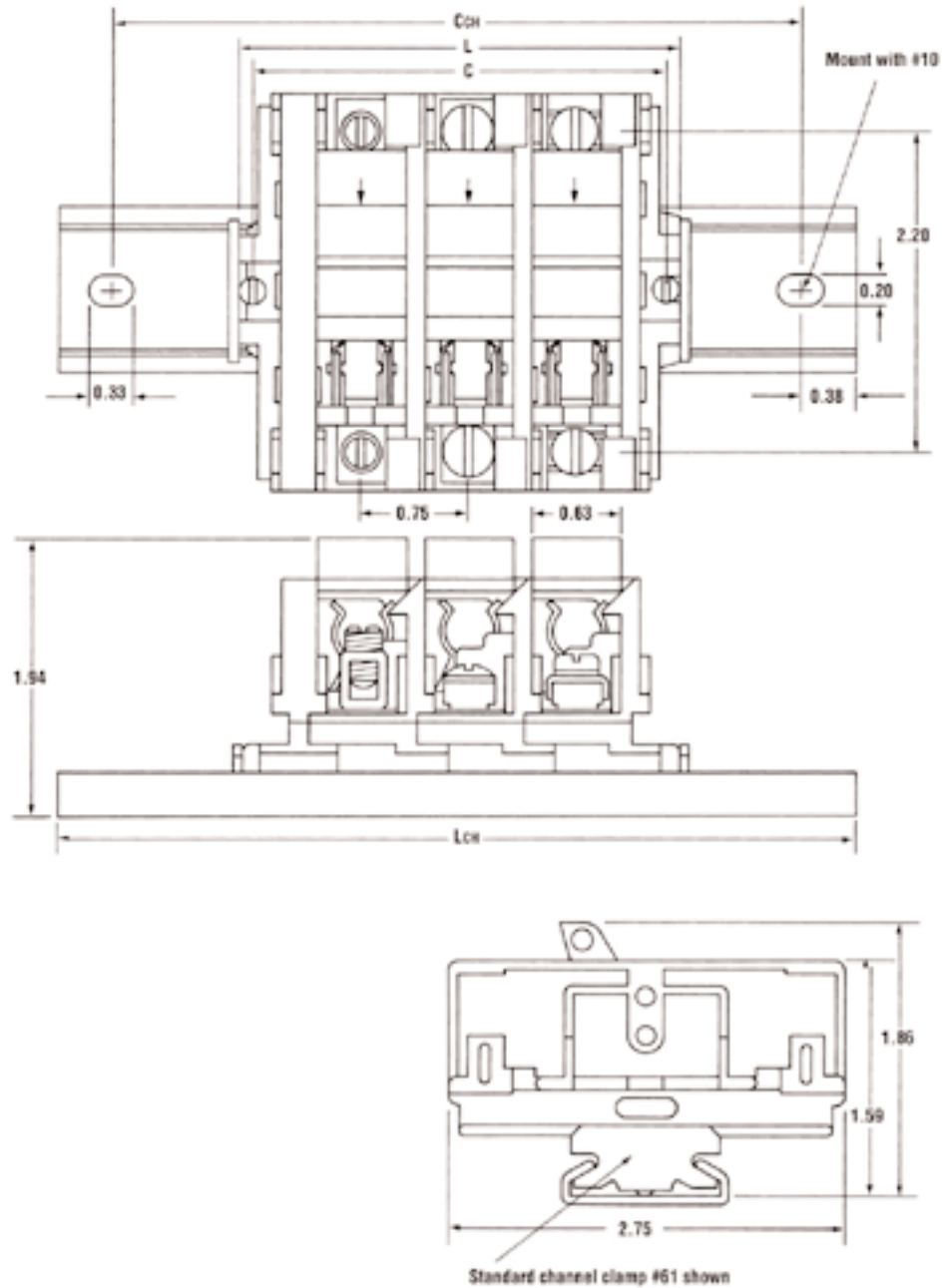
$$C = .56 + (.75 \times N)$$

$$L = .78 + (.75 \times N)$$

$$CCH = 2.28 + (.75 \times N)$$

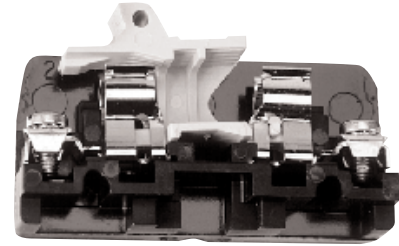
$$LCH = 3.03 + (.75 \times N)$$

N = Number of circuits



Phenolic Fuse Blocks

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



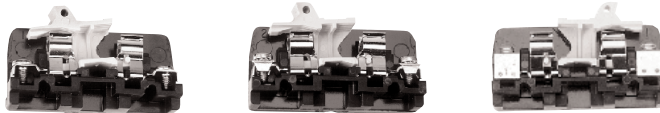
Specifications

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

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

Ampacity: Fuse blocks, 30A

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



Catalog Number	351	0351	358	0358	352	0352	330	0330
Mounting Style	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	Direct Mount (Flat Base)	Channel Mount (Dovetail Base)	End-Section (Direct Mount)	End-Section (Channel Mount)
Ampacity	30A		30A		30A		—	—
Contact Type	Strap Screw		Strap Clamp		Tubular Screw		—	—
Screw Type	10-32 Binding Head		8-32 Pan Head w/Clamp		1/4-28 Set Screw		—	—
Wire Range (AWG)	#22 to #8		#18 to #8		#18 - #8		—	—
Wire Strip Length	—		1/2 in.		1/2 in.		—	—

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper alloy
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	8400V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.49 - .58
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistance to acids, alkalis and aliphatic hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁷ min.

WIRE RANGE: Solid or Stranded

Tubular Screw, Cat. No. 362 and 0362

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



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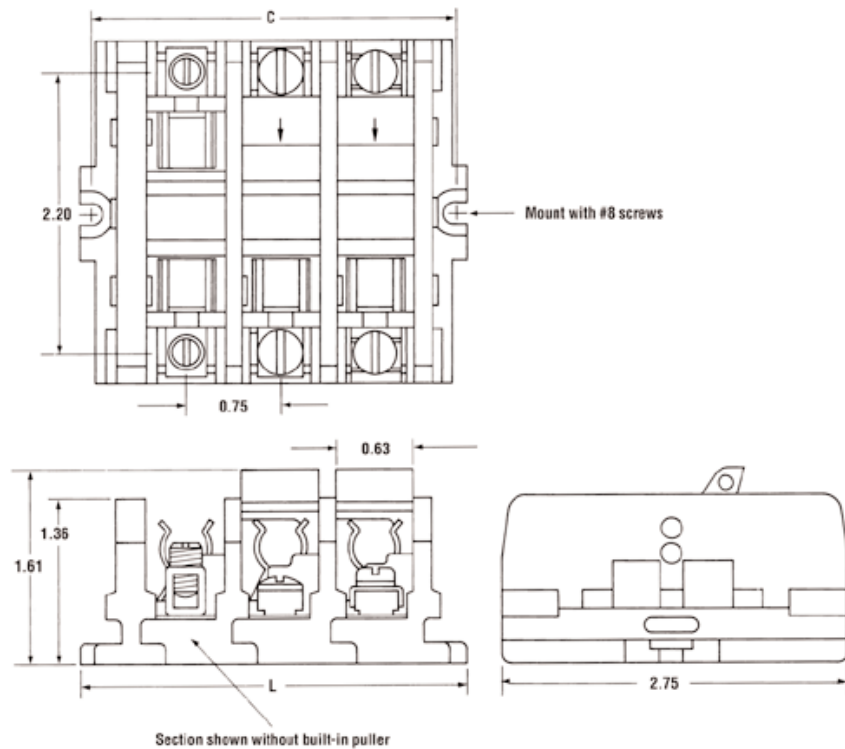
Phenolic Fuse Blocks

Flat Base (Direct Mount)

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

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

N = Number of circuits

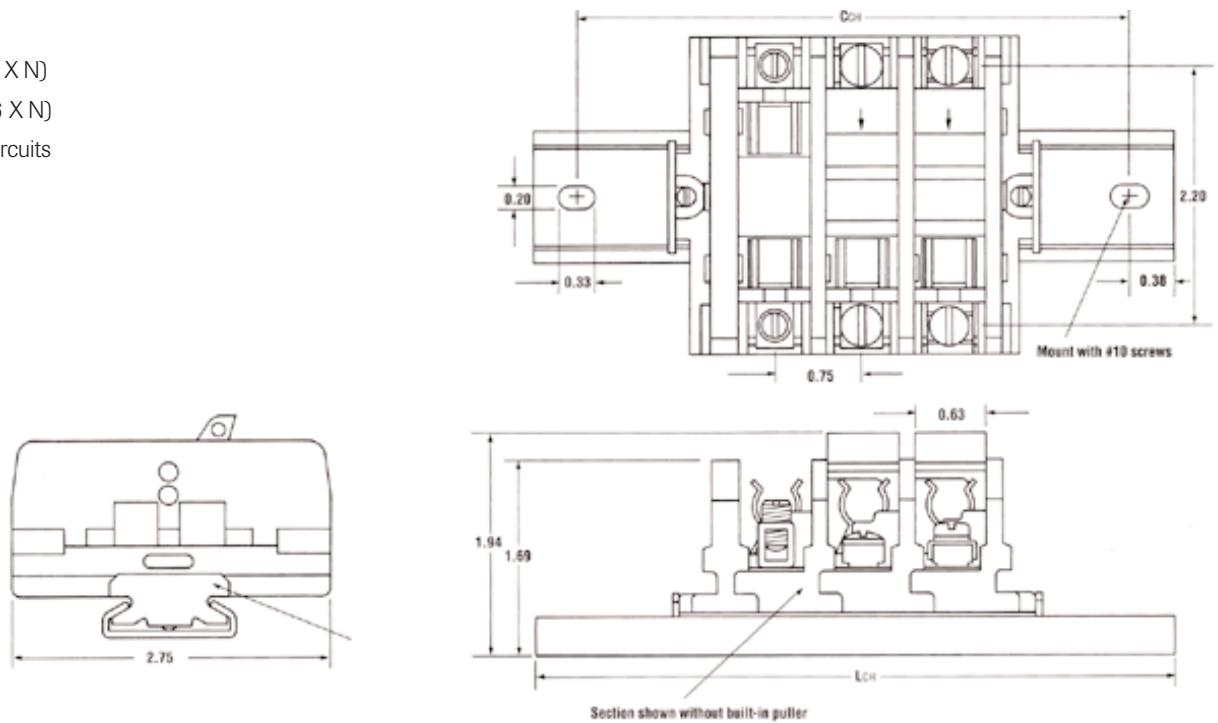


Dovetail Base Mounted on Standard #60 Channel

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

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

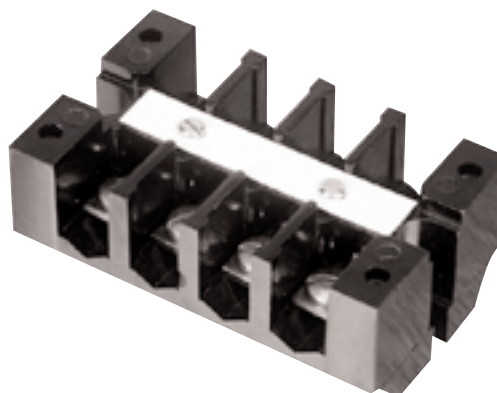
N = Number of circuits



Phenolic One Piece

Traditional standard in the heavy industrial, rail transport, utility and traffic control industries. The rugged, one-piece construction finds wide application in dirty and 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
- Dovetail base mounts on standard size channel
- Pilot point screws with strap screw contacts speed installation time
- Easily identifiable circuits with use of plain white marking strip
- No assembly required - each block is a single, easily installed unit



Specifications

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

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

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

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

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper / Copper Alloy
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.49 - .58
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistance to acids, alkalies and aliphatic hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g ⁻¹ C)	2.7 x 10 ⁷ min.

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

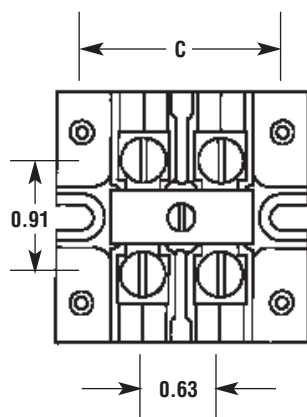
Dimensions

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

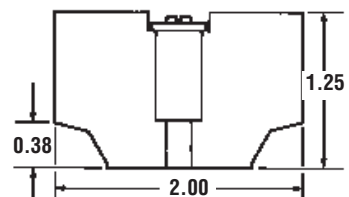
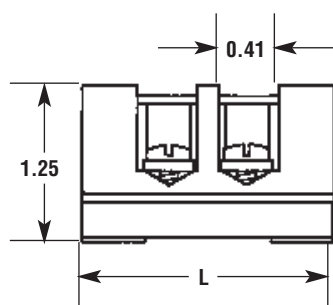


Phenolic One Piece

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



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



Mounting Channels



Mounting Channels	Cat. No.	Available for:
Miniature Channel	12	Heavy Duty (200 Series)
Steel Channel	60 63	Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Breakaway Steel Channel	60B36	Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Pre-punched Aluminum Channel	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

Channel Clamps	Cat. No.	Available for:
Miniature Clamp for #12 Channel	11	High Density Miniature & Single Tier (100 Series) Heavy Duty (200 Series)
Snap-in Clamp	62	High Density (100 Series) Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Universal Clamp	68	High Density (100 Series) Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)
Universal Clamp	61	High Density (100 Series) Medium Duty (900 Series) Heavy Duty (200 Series) Intermediate Heavy Duty (800 Series) Ultra Heavy Duty (400 Series) Fuse Blocks (300 Series)

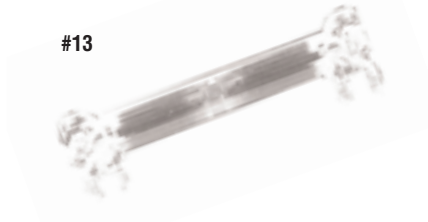


Ganging Rod

	Cat. No.	Available for:
Ganging Rod	30	Heavy Duty (200 Series) Heavy Duty-Phenolic (200 Series) Heavy Duty (800 Series) Fuse & Switch (0300) Series Fuse & Switch-Phenolic (300 Series)



Covers



#13



#23



#71

	Cat. No.	Available for:
See-Thru Covers	13	High Density Miniature & Single Tier (100 Series)
	23	Heavy Duty (200 Series) Heavy Duty-Phenolic (200 Series)
	71	Medium Duty (900 Series)

Jumpers

Jumper for Tubular Contacts



Jumper for Strap Screw



Snap-apart Jumper



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

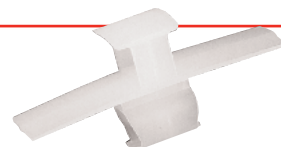
Nylon Holding Plug

	Cat. No.	Available for:
Nylon Holding Plug	65	Heavy Duty (200 Series) Heavy Duty-Phenolic (200 Series)



Fuse Puller

	Cat. No.	Available for:
Fuse Puller	31	Fuse Blocks (300 Series)



Notes

[illegible]

B

Wire Installation



Selecting Fish Tape Material



	Push Long Distance	Pulling Strength	Omni-Directional Push	Non-Corrosive	Non-Conductive
Blued Steel					
Stainless					
S-Class					
Gold-Fish					
Zoom					

Blued Steel™

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



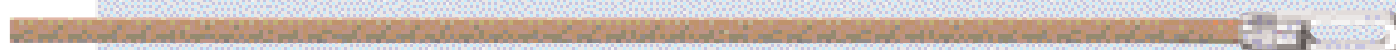
Stainless Steel

- Won't rust or corrode in damp locations or humid environments
- Super clean finish prevents marks on walls or carpets
- Great for wet or corrosive work environment
- Smoother pay-out
- Tensile strength 1,600 lbs.



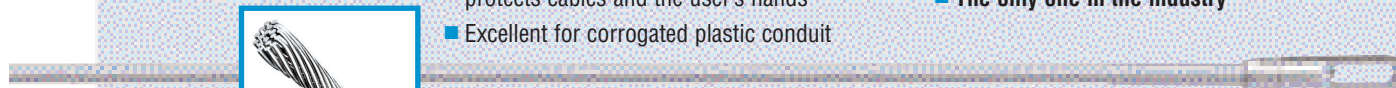
Gold-Fish®

- Brass-plated coiled steel resists rust
- No "memory" – hangs straight after being coiled for long periods
- Kink proof
- Excellent for multiple bends



Zoom™

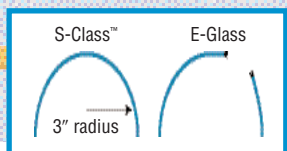
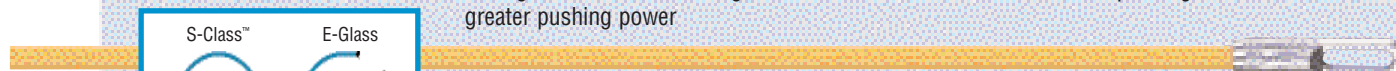
- 19 strands of #304 stainless steel
- Ultrahard nylon jacket adds slipperiness, protects cables and the user's hands
- Excellent for corrugated plastic conduit
- Excellent for multiple bends or wet/corrosive work environment
- The only one in the industry



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

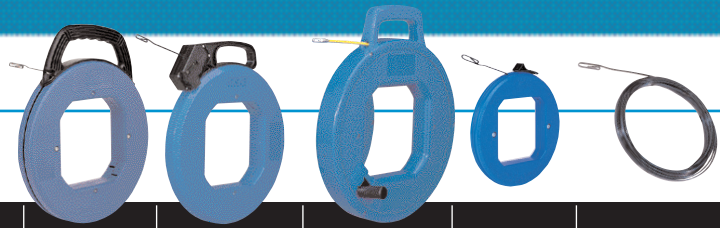
S-Class®

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



Minimum allowable bend for 3/8" conduit is 3.5" radius. Superior flexibility for tight bends in conduit runs.

Fish Tape Selection Guide



Length	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Tape-Pak® w/footage counter	Rapid-Pak®	Thumb-Winder™	Replacement Tapes
Blued Steel								
25	1/8 in. x .045 in.	7 in.	Formed hook	—	—	—	31-012	—
50	1/8 in. x .045 in.	7 in.	Formed hook	—	—	—	31-010	—
50	1/8 in. x .060 in.	9 in.	Formed hook	31-033**	—	—	—	—
60	1/8 in. x .060 in.	12 in.	Formed hook	31-055	—	—	—	31-035
100	1/8 in. x .060 in.	12 in.	Formed hook	—	31-126	31-081†	—	31-036
100	1/8 in. x .060 in.	12 in.	Gold fish leader end	31-124	—	—	—	31-040 & 31-148
120	1/8 in. x .060 in.	12 in.	Formed hook	31-056	—	—	—	31-036
200	1/8 in. x .060 in.	12 in.	Formed hook	—	31-127	31-098†	—	31-038
240	1/8 in. x .060 in.	12 in.	Swivel ball end	31-225	—	—	—	31-038 & 31-085
240	1/8 in. x .060 in.	12 in.	Gold fish leader end	31-125	—	—	—	31-038 & 31-148
240	1/8 in. x .060 in.	12 in.	Formed hook	31-057	—	—	—	31-038
500	1/8 in. x .060 in.	None	Formed hook	—	—	—	—	31-3380
700	1/8 in. x .060 in.	None	Formed hook	—	—	—	—	31-3379
50	1/4 in. x .060 in.	12 in.	Formed hook	31-059	—	—	—	31-050
100	1/4 in. x .060 in.	12 in.	Formed hook	31-058	—	—	—	31-051
300	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-2127
400	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-2128
600	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-2980
750	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-2139
1,000	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-3384
10,000	1/4 in. x .060 in.	None	Formed hook	—	—	—	—	31-2982
Stainless Steel								
120	1/8 in. x .060 in.	12 in.	Formed hook	31-066	—	—	—	31-073
240	1/8 in. x .060 in.	12 in.	Formed hook	31-067	—	—	—	31-074
S-Class® Nylon Jacketed Fiberglass								
50	3/16 in. diameter	12 in.	Leader	31-060	—	31-187†	—	31-150
50	3/16 in. diameter	12 in.	Eyelet	31-062	—	31-190†	—	31-160
100	3/16 in. diameter	12 in.	Leader	31-061	—	31-186†	—	31-152
100	3/16 in. diameter	12 in.	Eyelet	31-063	—	31-189†	—	31-162
200	3/16 in. diameter	16 in.	Leader	31-064*	—	31-207†	—	31-155
200	3/16 in. diameter	16 in.	Eyelet	31-065*	—	31-208†	—	31-165
300	3/16 in. diameter	None	Eyelet	—	—	—	—	31-2138
400	3/16 in. diameter	None	Eyelet	—	—	—	—	31-400
500	3/16 in. diameter	None	Eyelet	—	—	—	—	31-3370
Gold-Fish® Brass Plated Steel Coil								
25	3/16 in. diameter	None	Eyelet	—	—	—	—	31-140
50	3/16 in. diameter	12 in.	Eyelet	31-144	—	—	—	31-141
100	3/16 in. diameter	None	Eyelet	—	—	—	—	31-142
Zoom™ Nylon Jacketed Stainless Steel								
50	3/16 in. diameter	12 in.	Eyelet	31-090	—	—	—	31-091
100	3/16 in. diameter	12 in.	Eyelet	31-092	—	—	—	31-093
200	3/16 in. diameter	16 in.	Eyelet	31-096*	—	—	—	31-097

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

**9 in. diameter Tuff-Grip™ Pro Case

Description	Cat. No.
Fish Tape Leader for steel or stainless steel tapes	31-148
Fish Tape Leader for S-Class® Fiberglass	31-159
Multi-Wire Pulling Leader — 6-loop	31-146
Multi-Wire Pulling Leader — 4-loop	31-147

Description	Cat. No.
Fish Tape Swivel Ball	31-085
Replacement Eyelets (4) for S-Class®	31-158
Replacement Eyelets (2) for Zoom™	31-094

Tuff-Grip™ Pro

- Tuff-Cuff™ tape retaining feature keeps tape properly positioned in the opening
- Full-perimeter handle band helps keep dirt and moisture out, prolonging life
- Easier to install replacement tapes
- Superior pull-out and rewind characteristics
- Exceptionally durable case and handle
- Clean contemporary styling
- Large, comfortable ergonomically-designed handle, grasp from the top or side. Allows for use with gloves.



Cat. No.	Width & Thickness	End Type	Replacement Tape Cat. No.
Blued Steel			
31-055	1/8" x .060" x 60'	Formed Hook	31-035
31-124	1/8" x .060" x 120'	Gold-Fish® Leader End	31-040 & 31-148
31-056	1/8" x .060" x 120'	Formed Hook	31-036
31-225	1/8" x .060" x 240'	Swivel Ball End	31-038 & 31-085
31-057	1/8" x .060" x 240'	Formed Hook	31-038
Stainless Steel			
31-066	1/8" x .060" x 120'	Formed Hook	31-073
31-067	1/8" x .060" x 240'	Formed Hook	31-074
S-Class® Nylon Jacketed Fiberglass			
31-060	3/16" diameter x 50'	Leader	31-150
31-062	3/16" diameter x 50'	Eyelet	31-160
31-061	3/16" diameter x 100'	Leader	31-152
31-063	3/16" diameter x 100'	Eyelet	31-162
Nylon Monofilament			
31-542	3/16" diameter x 50'	Eyelet	31-552
31-544	3/16" diameter x 100'	Eyelet	31-554
Gold-Fish® Brass Plated Steel Coil			
31-144	3/16" diameter x 50'	Eyelet	31-141
Zoom™ Nylon Jacketed Stainless Steel			
31-090	3/16" diameter x 50'	Eyelet	31-091
31-092	13/16" diameter x 100'	Eyelet	31-093

Thumb Winder™ Fish Tapes

- Convenient 7 in. size can be stored in tool bag
- Durable, impact-resistant ABS case
- Easy-to-use thumb-operated rewind
- 1/8 in. x 0.045 in. steel tape



7 in.

Description	Cat. No.
Steel Tape – 25 ft.	31-012
Steel Tape – 50 ft.	31-010

Zoom™ Fish Tapes

- Translucent, impact-resistant case
- Unique non-slip handle with fingertip grooves
- Omni-directional, round cable design

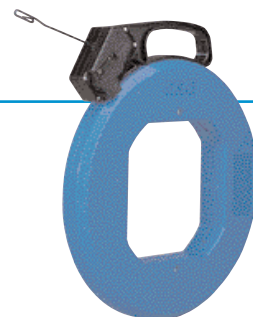


12 in.

Description	Cat. No.	Replacement Tape Cat. No.
Zoom™ Fish Tape – 50 ft.	31-090	31-091
Zoom™ Fish Tape – 100 ft.	31-092	31-093
Zoom™ Fish Tape – 200 ft.	31-096	31-097

Tape-Pak® Fish Tapes with Footage Counters

- Easy-to-read counter with magnified numbers
- Saves time and effort when working with long, concealed conduit runs



12 in.

Description	Cat. No.	Replacement Tape Cat. No.
Steel tape – 100 ft. x 1/8 in. x .060 in.	31-126	31-040
Steel tape – 200 ft. x 1/8 in. x .060 in.	31-127	31-038

Tuff-Grip™ Fish Tapes

- Large 16 in. case accommodates long tape lengths
- Large, comfortable, durable handle provides secure grip and ease of use
- Durable impact-resistant case

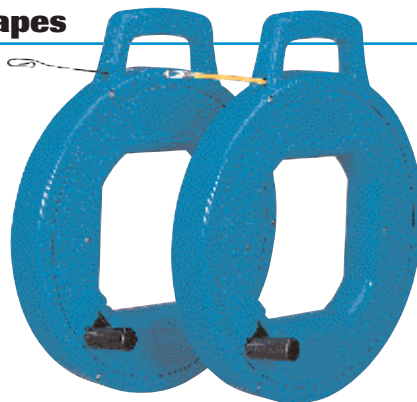


16 in.

Description	Cat. No.	Replacement Tape Cat. No.
S-Class® Fish Tape with Leader – 200 ft.	31-064	31-155
S-Class® Fish Tape with Eyelet – 200 ft.	31-065	31-165
Zoom™ – 200 ft.	31-096	31-097

Rapid-Pak® Fish Tapes

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



16 in.

Description	Cat. No.	Replacement Tape Cat. No.
Blued Steel tape – 100 ft. x 1/8 in. x .060 in.	31-081	31-040
Blued Steel tape – 200 ft. x 1/8 in. x .060 in.	31-098	31-038
Fiberglass tape w/leader – 50 ft.	31-187	31-150
Fiberglass tape w/leader – 100 ft.	31-186	31-152
Fiberglass tape w/leader – 200 ft.	31-207	31-155
Fiberglass tape w/eyelet – 50 ft.	31-190	31-160
Fiberglass tape w/eyelet – 100 ft.	31-189	31-162
Fiberglass tape w/eyelet – 200 ft.	31-208	31-165
Replacement crank assembly (winder knob)	31-220	—

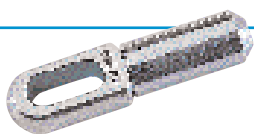
Fish Tape Leaders



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

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

Fish Tape Swivel Ball

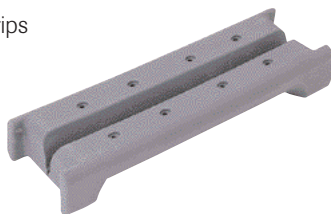


- Swivels to prevent wires from twisting during pull
- Designed for use on 1/8 in. steel or stainless steel tape
- Eyelet holds up to four 10 AWG bare wires

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

Puller for S-Class® Fiberglass Fish Tapes

- Non-slip material securely grips fiberglass without damaging material
- Fits into standard 12 in. fish tape case opening when not in use



Description	Cat. No.
Fish Tape Puller	31-170

Multi-Wire Pulling Leaders

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



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

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



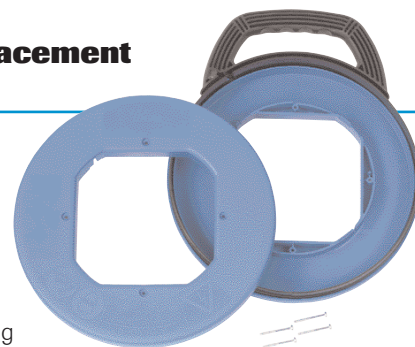
- Crimps on new eyelet or leader in minutes
- Dies can be used with Crimpmaster™ Crimp Tool
- Connection guaranteed to withstand 500 lbs.

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

*For those who already have a Crimpmaster™ Crimp Tool

Fish Tape Replacement Cases

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



Screws sold separately, case requires four LA-4218.

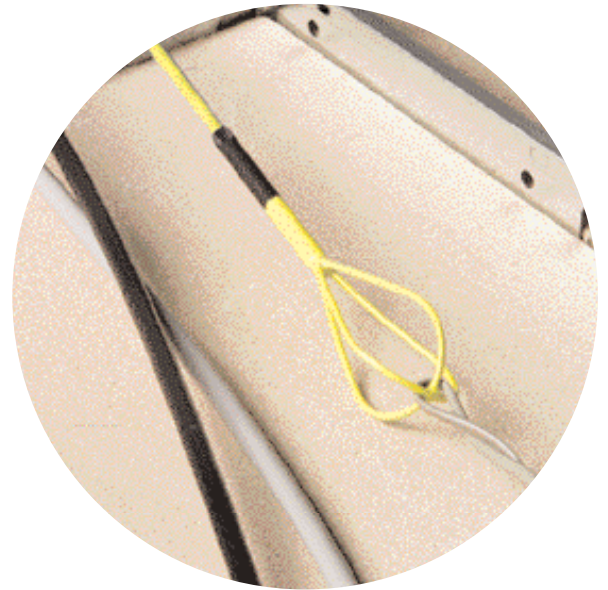
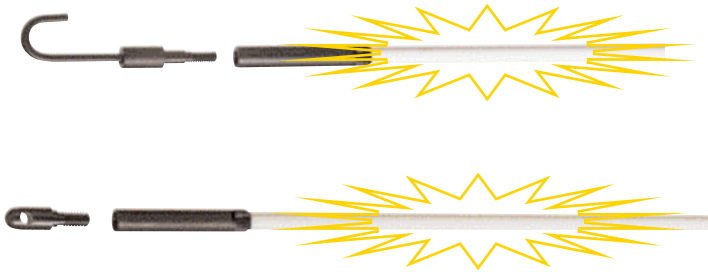
Description	Cat. No.
12" Tuff-Grip™ Pro Replacement Case	K-8985
Replacement Screws	LA-4218

! WARNING

Always use approved safety glasses when using this product. Do not use near energized equipment. Electrical shock may occur. Make sure all power is off. Do not use pliers or other tools that may kink, damage, or weaken any round fish tapes such as S-Class®, Nylon or Zoom™. Use only a fish tape puller designed for this purpose. While fish tapes made of fiberglass, nylon or other composite materials are non-conductive, they may have a metal eyelet that is conductive and could be grounded against conduit. Do not use on live electrical circuits. Do not attempt to use fish tape that is fractured or has multiple ends. Keep the fish tape wound in the reel to prevent damage to the tape. Use this product in a safe work position to prevent loss of balance. Never remove the screws from case while fish tape is coiled inside the reel. Failure to follow instructions may result in severe bodily harm or damage to property.

Tuff-Rod™ Fishing Poles

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



Fishing Poles

Tuff-Rod™ Regular Flex

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

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

Tuff-Rod™ Extra Flex Glow

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

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

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

Select-a-Lubricant

Lubricants

What Are Your Needs?

Commercial Wire Pulling			Utility Cable Pulling			
Finished Construction	New Construction	New Construction				
Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Outdoors ONLY	Outdoors	Indoors or Outdoors
40°F - 120°F 4°C - 49°C	40°F - 120°F 4°C - 49°C	40°F - 120°F 4°C - 49°C	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 75 ft. Up to 8 hrs.	Up to 1,200 ft. Up to 24 hrs.	Up to 1,200 ft. Up to 24 hrs.	Up to 250 ft. Up to 24 hrs.	Up to 250 ft. Up to 72 hrs.	Up to 250 ft. Up to 24 hrs.	Up to 250 ft. Up to 24 hrs.
ClearGlide™	Yellow 77®	Yellow 77® Plus	Aqua-Gel® II	Aqua-Gel® CW	Aqua-Gel® IIP	Velocity™

Wire Pulling Lubricant Selection Guide



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

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

Yellow 77® Plus Wire Pulling Lubricant

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

Description	Cat. No.
1-qt. Squeeze bottle	31-398
1-gal. Bucket	31-391
5-gal. Bucket	31-395



Yellow 77® Wire Pulling Lubricant

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

Description	Cat. No.
1-qt. Squeeze bottle	31-358
1-qt. Tub	31-350
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 range — usable from 30°F to 180°F (-1°C to 82°C)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe — non-toxic, non-flammable and non-corrosive



Description	Cat. No.
1-qt. Squeeze bottle	31-388
1-gal. Bucket	31-381
5-gal. Bucket	31-385
4 oz. Squeeze bottle in saleable 6-pack	31-389



Velocity™ Wire Pulling Lubricant

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



Description	Cat. No.
1-qt. Squeeze bottle	31-276
1-gal. Bucket	31-277
5-gal. Bucket	31-278
55-gal. Drum	31-279



Recommended Quantity of Lubricant Formula

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

Q = Quantity of recommended lube in gallons

L = Length of pull in feet

D = Nominal ID of conduit in inches

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

Increase quantities for the following troubles:

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

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



Aqua-Gel® II Cable Pulling Lubricant

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

Description	Cat. No.
1-qt. Squeeze bottle	31-378
1-gal. Bucket	31-371
1-qt. Bag (12 bags per bucket)	31-376
1/2-gal. Bag (6 bags per bucket)	31-377
5-gal. Bucket	31-375
55-gal. Drum	31-3855



Cable Gripping Gloves

- Rubber coating provides positive grip on lubricated cable
- Comfortable fit



Description	Cat. No.
Rubber-Coated Gloves	31-417

Duct Seal



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

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

Bender Putter

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



Description	Cat. No.
Bender Putter	74-999

Noalox® Anti-Oxidant

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



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

Twist-a-Nut™ Conduit Deburring Tool



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



35-098

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

Conduit Benders

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

Ductile Iron

- Withstands a lifetime of heavy use
- Ductile iron material is stronger than malleable iron
- Lifetime guarantee



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

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

Aluminum

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

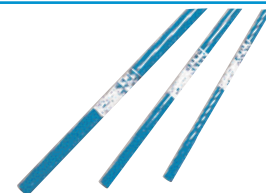


Conduit Type and Size	Bender & Handle Cat. No.
1/2 in. EMT	74-046
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-047
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-048
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-035

Conduit Type and Size	Bender Only Cat. No.
1/2 in. EMT	74-031
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-032
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-033
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-036

Handles for Benders

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



Ductile

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

Aluminum

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

Hickeys

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



Ductile Iron Hickeys

- High-strength ductile iron construction
- Grooved internal hook helps prevent conduit from slipping
- Lifetime replacement guarantee



Conduit Type and Size	Hickey Only Cat. No.
1/2 in. EMT	74-010
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-011
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-012
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-013

Handles for Hickeys

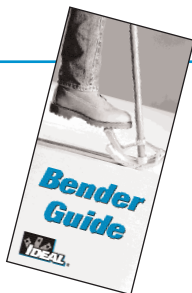
- Rugged, steel construction for long-term durability
- Baked-on blue enamel finish resists corrosion and enhances visibility
- Convenient bending guide for offset bends



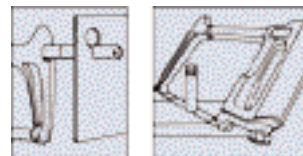
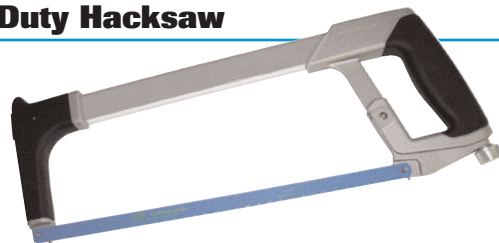
Conduit Type and Size	Handle Only Cat. No.
1/2 in. EMT	74-019
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC	74-019
1 in. EMT, 3/4 in. Rigid & 3/4 in. IMC	74-020
1-1/4 in. EMT, 1 in. Rigid & 1 in. IMC	74-021

Pocket Bender Guide

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



Heavy-Duty Hacksaw



- Use as conventional hacksaw or as jab saw to enlarge holes
- Rugged frame provides lightweight rigidity and exceptional control
- Stores up to nine extra blades
- Blades can be adjusted to 55° angle for flush cutting and tensioned to 25,000 psi
- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Heavy Duty Hacksaw	35-260

Ergonomic Hacksaw

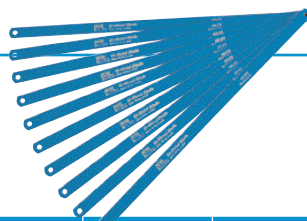


- Angled handle for easier cutting
- Blade can easily be adjusted for flush cutting
- Easy tensioning wing-nut keeps blades tight for straighter cuts
- Cushioned ergonomic grip for performance and comfort
- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Ergonomic Hacksaw	35-261

Hacksaw Blades

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



Description	Qty./Pack	Cat. No.
12 in. x 18T Blades	10	35-271
12 in. x 24T Blades	10	35-272
12 in. x 32T Blades	10	35-273
12 in. x 18T Blades	100	35-262
12 in. x 24T Blades	100	35-263
12 in. x 32T Blades	100	35-264

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	Cat. No.
Valu-Line™ Pull-Line – 6,500 ft. (bucket)	190 lb. avg.	31-338

Powr-Fish® Pull-Line

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



Description	Tensile Strength	Cat. No.
Powr-Fish® Pull-Line – 6,500 ft. (bucket)	190 lb. min.	31-338
Powr-Fish® Pull-Line – 6,500 ft. (bucket)	210 lb. min.	31-340
Powr-Fish® Pull-Line – 6,500 ft. (box)	210 lb. min.	31-343

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	Cat. No.
Powr-Fish® Pull-Line – 2,200 ft. (bucket)	500 lb. min.	31-344

Conduit Measuring Tape

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



Description	Cat. No.
Conduit Measuring Tape – 3,000 ft.	31-347
Dispenser	31-349

Pro-Pull™ Rope

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



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

† Eye splice on working end.

Foam Carriers



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

Multi-Pack Foam Carriers

Description	Cat. No.
1/2 in. Foam Carrier, 5-pack bag	31-466
3/4 in. Foam Carrier, 5-pack bag	31-467
1 in. Foam Carrier, 5-pack bag	31-468
1-1/4 in. Foam Carrier, 3-pack bag	31-469
1-1/2 in. Foam Carrier, 2-pack bag	31-470
2 in. Foam Carrier, 1-pack bag	31-471

Bulk-Pack Foam Carriers

Description	Cat. No.
1/2 in. Foam Carrier, single	31-316
3/4 in. Foam Carrier, single	31-317
1 in. Foam Carrier, single	31-318
1-1/4 in. Foam Carrier, single	31-319
1-1/2 in. Foam Carrier, single	31-320
2 in. Foam Carrier, single	31-321
2-1/2 in. Foam Carrier, single	31-322
3 in. Foam Carrier, single	31-323
3-1/2 in. Foam Carrier, single	31-324
4 in. Foam Carrier, single	31-325
5 in. Foam Carrier, single	31-326
6 in. Foam Carrier, single	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
- Available individually or in multi-pack bags

Multi-Pack Line Packages

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

Bulk-Pack Line Packages

Description	Color	Cat. No.
Line Package, 1/2 in. x 75 ft., single	Red	31-328
Line Package, 1/2 in. x 150 ft., single	Red	31-329
Line Package, 3/4 in. x 75 ft., single	Yellow	31-330
Line Package, 3/4 in. x 200 ft., single	Yellow	31-331
Line Package, 3/4 in. x 300 ft., single	Yellow	31-332
Line Package, 3/4 in. x 450 ft., single	Yellow	31-333
Line Package, 1 in. x 75 ft., single	White	31-334
Line Package, 1 in. x 200 ft., single	White	31-335
Line Package, 1 in. x 300 ft., single	White	31-336
Line Package, 1 in. x 450 ft., single	White	31-337



Tools and Totes



Engineered to strip every wire right

Kinetic™ Reflex™ T®-Stripper Wire Stripper

The newest model from IDEAL. Ergonomic handles and Santoprene® lined Thumb-Valley™ make this the premier wire stripper in the market.



Kinetic Super™ Wire Stripper

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



Reflex™ Super T®-Stripper Wire Stripper

Reduce wrist fatigue with our ergonomically designed Reflex™ Super T®-Stripper Wire Stripper with curved handles. These strippers feature 6/32 and 8/32 self-chasing, bolt-cutting holes and a locking pawl for safe storage.



Reflex™ Premium T®-Stripper Wire Stripper

Designed for total-comfort, total-control wire stripping. Ergonomic handles, designed to fit an electrician's natural grip, reduce repetitive motion fatigue. Textured, no-slip sleeves cushion thumb and finger.



Super T®-Stripper Wire Stripper

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



Premium T®-Stripper Wire Stripper

The great benefits of the T®-Stripper Wire Stripper with added convenience and comfort. Unique contoured grips provide more comfortable wire stripping and reduce operator fatigue. Perfect for a wide variety of applications.



T®-Stripper Wire Stripper

The industry standard for almost 50 years. Compact, lightweight and easy to use. Features precision-ground, knife-type blades, built-in looping holes, wire cutters and a convenient plier nose.

T®-Stripper Wire Stripper Selection Guide

Wire Size	Solid	Stranded	Solid	Stranded	Solid	Stranded	Solid	Stranded	Solid	Stranded
	30	32	24	26	18	20	16	18	14	16
	28	30	22	24	16	18	14	16	12	14
	26	28	20	22	14	16	12	14	1	12
	24	26	18	20	12	14	10	12	8	10
	22	24	16	18	10	12	8	10	6	8
			14	16						
Series										
45-100's	45-125		45-121		45-120		—		45-124	
45-200's	45-217		45-216		45-215		—		45-218	
45-300's	45-317		45-316		—		45-315		45-318	
45-400's	45-417		45-416		45-415		—		45-418	
45-600's	45-617		45-616		—		45-615		45-618	
45-700's	45-714		45-716		45-715		—		45-718	
45-900's	—		—		45-915		—		45-918	

Kinetic™ Super Wire Strippers



- Non-slip Santoprene™ textured grips
- New ergonomic design for maximum control
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more accurate
- “Shear-Cut™” bolt cutters

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

Reflex™ Premium T®-Stripper Wire Strippers



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

Description	Solid	Stranded	Cat. No.
Reflex™ Premium T®-Stripper	10-18	12-20	45-415
Reflex™ Premium T®-Stripper	14-24	16-26	45-416
Reflex™ Premium T®-Stripper	22-30	24-32	45-417
Reflex™ Premium T®-Stripper	6-14	8-16	45-418
Reflex™ Premium T®-Stripper – Metric	0.5mm ² -4.0mm ²		45-425-341
Reflex™ Premium 14/2 NM Cable T®-Stripper	14/2		45-448
Reflex™ Premium 12/2 NM Cable T®-Stripper	12/2		45-449
Reflex™ Premium T®-Cutter	Cutter		45-423

Kinetic™ Reflex™ T®-Stripper Wire Strippers



- Non-slip Santoprene™ textured grips
- New ergonomic design for maximum control

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

Reflex™ Super T®-Stripper Wire Strippers



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

Description	Solid	Stranded	Cat. No.
Reflex™ Super T®-Stripper	8-16	10-18	45-615
Reflex™ Super T®-Stripper w/static dissipative grips	14-24	16-26	45-616
Reflex™ Super T®-Stripper w/static dissipative grips	22-30	24-32	45-617
Reflex™ Super T®-Stripper	8-14	8-16	45-618
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper	12-2 and 14-2	—	45-621

Super T®-Stripper Wire Strippers



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

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

NM Cable T®-Stripper Wire Strippers



- Easy, one-step stripping of outer jacket of NM cable – no slitting required
- Versatility to strip, cut and loop conductor wires with precision and ease
- Stripping holes for 12 or 14 AWG solid wire

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

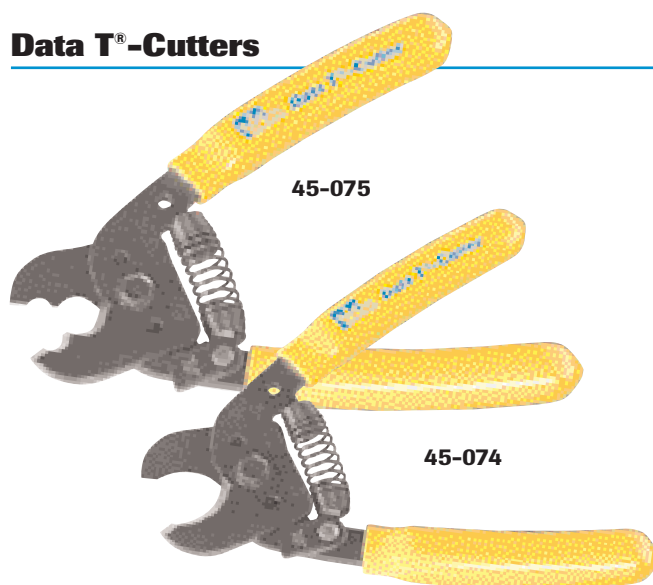
Super T®-Stripper Wire Strippers—Static Dissipative



- Static dissipative grips for dispersing static charge buildup through the operator to the ground (operator must be grounded via wrist strap or other grounding device)

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

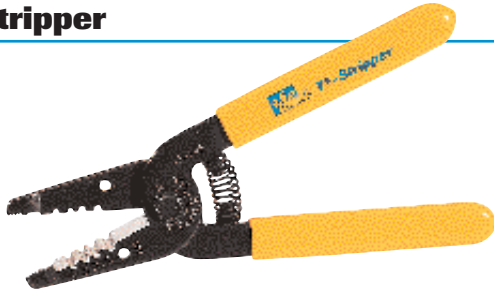
Data T®-Cutters



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

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

NM Cable Dual-Hole T[®]-Stripper Wire Stripper



- Stripping holes for stripping two 12 AWG or two 14 AWG wires simultaneously
- Ability to strip both conductor wires of NM cable at one time
- Contoured, comfort grip handles on Premium model

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

T[®]-Stripper Wire Strippers



- Form-ground, knife-type blades for accurate, easy stripping without nicking insulation
- Built-in wire cutter and looping holes
- Convenient plier nose for extra gripping strength
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion-resistant, black oxide finish
- Tough steel construction
- Locking tabs keep spring in place

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

Premium T[®]-Stripper Wire Strippers



- Contoured, comfort-grip handles to reduce operator fatigue

Description	Solid	Stranded	Cat. No.
Premium T [®] -5 T [®] -Stripper	10-18	12-20	45-215
Premium T [®] -6 T [®] -Stripper	14-24	16-26	45-216
Premium T [®] -7 T [®] -Stripper	22-30	24-32	45-217
Premium T [®] -8 T [®] -Stripper	6-14	8-16	45-218

T[®]-Cutter Wire Cutters



- 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
- Premium model features comfort-grip handles; Super model features curved cushion-grip handles; Reflex™ Premium model features ergonomic design with textured cushion-grip handles

Description	Wire Range	Cat. No.
T [®] -Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-123
Premium T [®] -Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-223
Super T [®] -Cutter w/static dissipative grips	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-323
Reflex™ Premium T [®] -Cutter	Up to 1/2 in. O.D. fine-stranded wire and 10 AWG solid wire	45-423

Combo Tool



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

Description	Cat. No.
Combo Tool	30-428

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
- Locking hasp

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

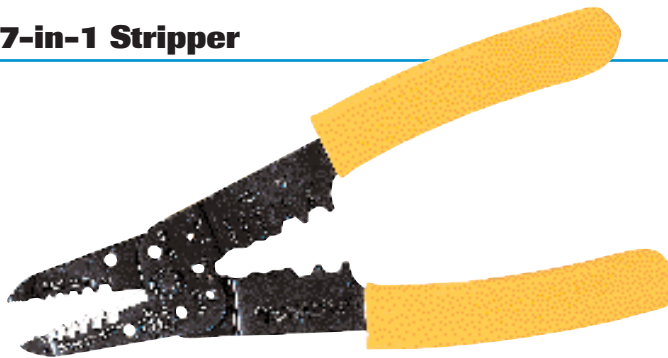
Multi-Crimp Strip Tool



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

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

7-in-1 Stripper



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

Description	Cat. No.
Seven-In-One Stripper	45-777

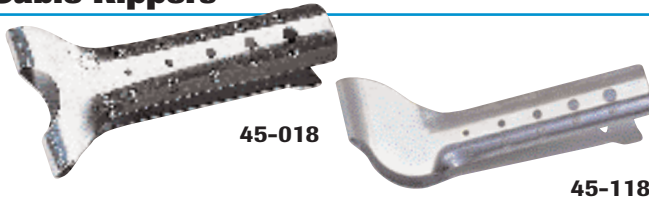
Coax Strip and Crimp Tool



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

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

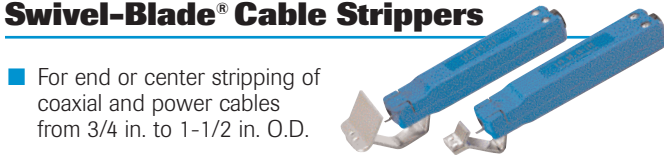
Cable Rippers



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

Description	Cat. No.
Standard Cable Ripper	45-018
Side Entry Cable Ripper	45-118

Swivel-Blade® Cable Strippers

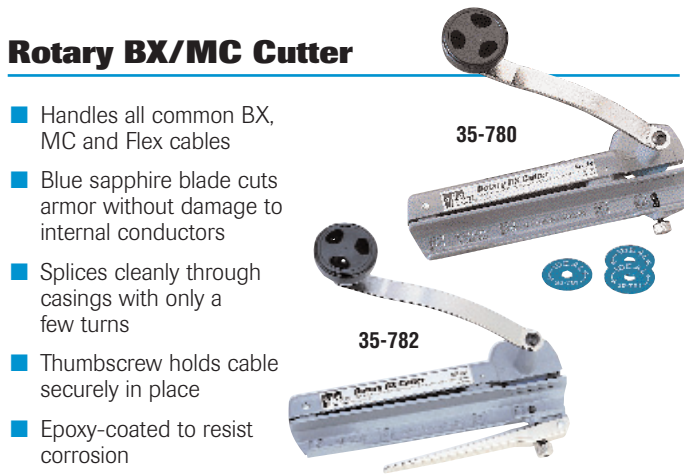


- For end or center stripping of coaxial and power cables from 3/4 in. to 1-1/2 in. O.D.
- Strips insulation to 5/32 in. including PVC, rubber, Neoprene, TEFLON®, polyethylene, Nylon, Kapton, fiberglass and fabric
- Spare blade in handle

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

Teflon® and Kapton® are registered trademarks of E. I. du Pont de Nemours and Company.

Rotary BX/MC Cutter



- Handles all common BX, MC and Flex cables
- Blue sapphire blade cuts armor without damage to internal conductors
- Splices cleanly through casings with only a few turns
- Thumbscrew holds cable securely in place
- Epoxy-coated to resist corrosion
- Handle knob stores up to six replacement blades

Description	Cat. No.
Rotary BX/MC Cutter	35-780
Replacement blades (5 per pack)	35-781
Rotary BX/MC Cutter with Lever	35-782

Grip-N-Strip™ End Stripper

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



Description	Cat. No.
Grip-N-Strip™ End Stripper	45-227
Replacement blade set	LB-1501

Maxim Wire Stripper

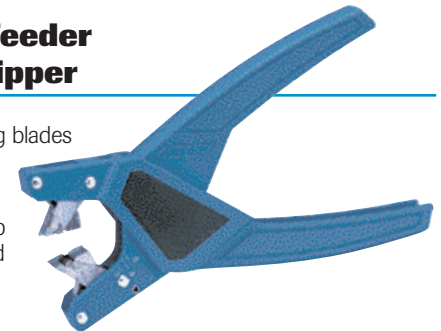
- Uses 33 blades within each jaw to self-adjust and conform to the profile of different wire sizes and insulation densities
- Self-adjusting blades strip 10 to 26 AWG solid or stranded wire
- Built-in wire cutter
- Strip length adjusts from 1/8 in. to 3/4 in.
- Reinforced fiberglass construction



Description	Cat. No.
Maxim Wire Stripper	45-327
Replacement blade set	LA-2524

Underground Feeder (UF) Cable Stripper

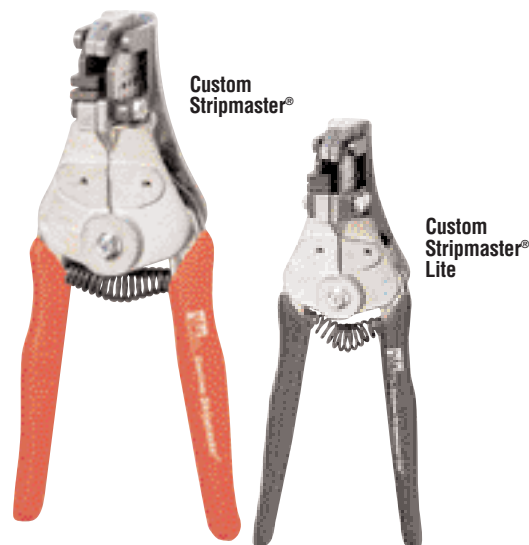
- Self-adjusting stripping blades automatically select proper position
- Strips 12 AWG solid to 14 AWG Underground Feeder (UF) Cable
- Strips Twin and Earth cable
- Open-throat construction allows unlimited strip length
- Neatly removes outer cable sheath and then inner wire sheathing to desired lengths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



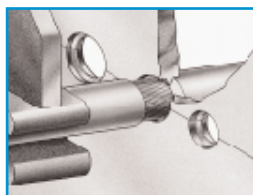
Description	Cat. No.
Underground Feeder Cable Stripper	45-235

Custom Stripmaster® and Custom Stripmaster® Lite Wire Strippers

- Strips 30 through 10 AWG solid or stranded wire
- Mil-spec die-type blades allow precision stripping
- Inner cutting hole sized to conductor and counter-bored holes sized to insulation
- Replaceable Grippers
- Optional short stop latch and transparent wire stop
- Cushioned, comfort grip handles
- Custom Stripmaster® Lite is 3/4's the size of Custom Stripmaster® Wire Stripper and strips 16 through 30 AWG solid or stranded wire
- Custom Stripmaster® Lite requires one-third less hand pressure for each strip actuation
- Engineering Service and made-to-order blades available. Contact factory for complete product and blade number listing.



Gripper pads hold the wire securely in a centerline relationship with the blade.



Die-type blades incorporate a counter-bored hole sized to the insulation and an inner cutting hole sized to the conductor. This varies depending on insulation type and thickness.



Custom Stripmaster® Wire Strippers and Die-Type Blades

Specifications — $\frac{\text{Cutting Hole Diameter}}{\text{Counterbore Diameter}}$ (Inches)												
Wire Size AWG											Stripper Cat. No.	Blade Only Cat. No.
30	28	26	24	22	20	18	16	14	12	10		
For Type E Teflon® (600V)												
								$\frac{.076}{.0935}$	$\frac{.096}{.113}$	$\frac{.119}{.136}$	45-176	L-5559
		$\frac{.023}{.039}$	$\frac{.028}{.043}$	$\frac{.034}{.052}$	$\frac{.042}{.0595}$	$\frac{.052}{.070}$	$\frac{.061}{.081}$				45-177	L-5560
$\frac{.016}{.032}$	$\frac{.019}{.035}$	$\frac{.023}{.039}$									45-178	L-5561
For Type EE Teflon® (1000V)												
								$\frac{.076}{.104}$	$\frac{.096}{.125}$	$\frac{.119}{.144}$	45-173	L-5562
		$\frac{.023}{.0465}$	$\frac{.028}{.055}$	$\frac{.034}{.0595}$	$\frac{.042}{.067}$	$\frac{.052}{.0785}$	$\frac{.061}{.089}$				45-174	L-5563
$\frac{.016}{.042}$	$\frac{.019}{.043}$	$\frac{.023}{.0465}$									45-175	L-5564
For Other Misc. Insulations												
								$\frac{.076}{.113}$	$\frac{.0937}{.138}$	$\frac{.116}{.154}$	45-170	L-5210
		$\frac{.022}{.052}$	$\frac{.0292}{.0595}$	$\frac{.035}{.0635}$	$\frac{.042}{.073}$	$\frac{.052}{.086}$	$\frac{.062}{.096}$				45-171	L-5211
$\frac{.016}{.037}$	$\frac{.020}{.040}$	$\frac{.024}{.043}$									45-172	L-5436
For Wire Wrap & Other Thin Insulated Wire												
$\frac{.012}{.020}$								Three identical holes			45-179	L-7625
$\frac{.012}{.019}$	$\frac{.014}{.023}$	$\frac{.018}{.025}$	$\frac{.024}{.033}$					Solid Wires			45-169	L-9300

Tolerances: Cutter Dia.: $\pm .001$; Counter-bore Dia.: $\pm .002$

The 45-170 Series is a Custom Stripmaster® Wire Stripper frame without the short stop latch and wire stop.

45-169 through 45-188 include grit-type pads (standard).

45-369 through 45-388 include file-type pads.

45-469 through 45-488 include parallel-type pads.



Custom Stripmaster® Lite Wire Strippers and Die-type Blades

Specifications — Cutting Hole Diameter Counterbore Diameter (Inches)								Stripper Cat. No.	Blade Only Cat. No.
Wire Size AWG									
30	28	26	24	22	20	18	16		
MIL-W-16878 Type E 600V Teflon® Wire									
				.034 .052	.042 .0595	.052 .070	.061 .081	45-638	LB-918
		.023 .039	.028 .043	.034 .052	.042 .0595			45-639	LB-919
.016 .032	.019 .035	.023 .039	.028 .043					45-640	LB-920
MIL-W-16878 Type EE 1000V Teflon® Wire									
				.034 .0595	.042 .067	.052 .0785	.061 .089	45-635	LB-915
		.023 .0465	.028 .055	.034 .0595	.042 .067			45-636	LB-916
.016 .042	.019 .043	.023 .0465	.028 .055					45-637	LB-917
General Purpose									
				.035 .0635	.042 .073	.052 .086	.062 .096	45-632	LB-912
		.022 .052	.0292 .0595	.035 .0635	.042 .073			45-633	LB-913
.016 .037	.020 .040	.024 .043	.0292 .0595					45-634	LB-914
Wire Wrapping (Thin Insulation Solid Wire)									
.012 .020					Four holes, same size			45-641	LB-921
.012 .019	.014 .023	.018 .025	.024 .033		Solid Wires			45-631	LB-911

Tolerances: Cutter Dia.: $\pm .001$; Counterbore Dia.: $\pm .002$. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

Custom Stripmaster® Wire Strippers and Die-Type Blades

Specifications — $\frac{\text{Cutting Hole Diameter}}{\text{Counterbore Diameter}}$ (Millimeters) (Reference chart only. Blades are not marked in mm)												
mm² Nom											Stripper Cat. No.	Blade Only Cat. No.
0.05	0.08	0.13	0.2	0.22	0.5	1.0	1.5	2.5	4.0	6.0		
For Type E Teflon® (600V)												
								$\frac{1.93}{2.37}$	$\frac{2.44}{2.87}$	$\frac{3.02}{3.45}$	45-176	L-5559
		$\frac{.584}{.99}$	$\frac{.711}{1.09}$	$\frac{.863}{1.32}$	$\frac{1.07}{1.5}$	$\frac{1.33}{1.78}$	$\frac{1.55}{2.06}$				45-177	L-5560
$\frac{.406}{.813}$	$\frac{.482}{.889}$	$\frac{.584}{.99}$									45-178	L-5561
For Type EE Teflon® (1000V)												
								$\frac{1.93}{2.64}$	$\frac{2.44}{3.17}$	$\frac{3.02}{3.6}$	45-173	L-5562
		$\frac{.584}{1.17}$	$\frac{.711}{1.39}$	$\frac{.863}{1.5}$	$\frac{1.07}{1.70}$	$\frac{1.33}{1.99}$	$\frac{1.55}{2.49}$				45-174	L-5563
$\frac{.406}{1.07}$	$\frac{.482}{1.09}$	$\frac{.584}{1.17}$									45-175	L-5564
For Other Misc. Insulations												
								$\frac{1.93}{2.87}$	$\frac{2.38}{3.45}$	$\frac{2.94}{3.91}$	45-170	L-5210
		$\frac{.560}{1.33}$	$\frac{.736}{1.5}$	$\frac{.889}{1.61}$	$\frac{1.07}{1.85}$	$\frac{1.33}{2.18}$	$\frac{1.57}{2.44}$				45-171	L-5211
$\frac{.406}{.940}$	$\frac{.508}{1.01}$	$\frac{.609}{1.09}$									45-172	L-5436
For Wire Wrap & Other Thin Insulated Wire												
$\frac{.305}{.508}$								Three identical holes			45-179	L-7625
$\frac{.305}{.482}$	$\frac{.356}{.584}$	$\frac{.457}{.635}$	$\frac{.609}{.838}$								45-169	L-9300

Tolerances: Cutter Dia.: $\pm .025\text{mm}$; Counterbore Dia.: $\pm .051\text{mm}$

1-800-435-0705 for Customer Service

www.idealindustries.com

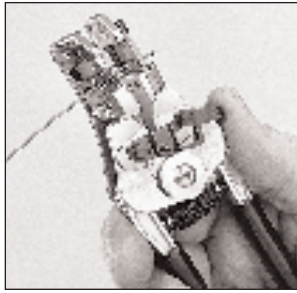
C-9



Custom Stripmaster® Lite Wire Strippers and Die-type Blades

Specifications — $\frac{\text{Cutting Hole Diameter}}{\text{Counterbore Diameter}}$ (Millimeters)								Stripper Cat. No.	Blade Only Cat. No.
Wire Size AWG									
1,5	1,0	0,5	0,22	0,2	0,13	0,08	0,05		
MIL-W-16878 Type E 600V Teflon® Wire									
$\frac{1,55}{2,06}$	$\frac{1,32}{1,99}$	$\frac{1,07}{1,51}$	$\frac{0,86}{1,32}$					45-638	LB-918
		$\frac{1,07}{1,51}$	$\frac{0,86}{1,32}$	$\frac{0,71}{1,09}$	$\frac{0,58}{,099}$			45-639	LB-919
				$\frac{0,71}{1,09}$	$\frac{0,58}{0,99}$	$\frac{0,48}{0,89}$	$\frac{0,41}{0,82}$	45-640	LB-920
MIL-W-16878 Type EE 1000V Teflon® Wire									
$\frac{1,55}{2,26}$	$\frac{1,32}{1,99}$	$\frac{1,07}{1,70}$	$\frac{0,86}{1,51}$					45-635	LB-915
		$\frac{1,07}{1,70}$	$\frac{0,86}{1,51}$	$\frac{0,71}{1,40}$	$\frac{0,58}{1,18}$			45-636	LB-916
				$\frac{0,71}{1,40}$	$\frac{0,58}{1,18}$	$\frac{0,48}{1,09}$	$\frac{0,41}{1,07}$	45-637	LB-917
General Purpose									
$\frac{1,57}{2,44}$	$\frac{1,32}{2,18}$	$\frac{1,07}{1,85}$	$\frac{0,89}{1,61}$					45-632	LB-912
		$\frac{1,07}{1,85}$	$\frac{0,89}{1,61}$	$\frac{0,74}{1,51}$	$\frac{0,56}{1,32}$			45-633	LB-913
				$\frac{0,74}{1,51}$	$\frac{0,61}{1,09}$	$\frac{0,51}{1,02}$	$\frac{0,41}{0,86}$	45-634	LB-914
Wire Wrapping (Thin Insulation Solid Wire)									
		Four holes, same size					$\frac{0,30}{0,76}$	45-641	LB-921
			Solid Wires	$\frac{0,61}{0,84}$	$\frac{0,46}{0,64}$	$\frac{0,36}{0,58}$	$\frac{0,30}{0,48}$	45-631	LB-911

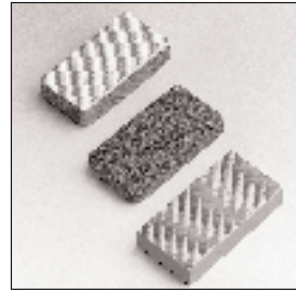
Tolerances: Cutter Dia.: ± .001; Counterbore Dia.: ± .002. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.



Short-stop Latch protects wire strands by limiting the stripping stroke to 5/32 in. and retains the slug until the wire is ready for terminating.



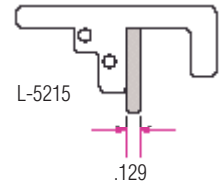
Transparent wire stop provides uniform stripping length.



Gripper Pads are available in your choice of either parallel, file or grit-type. File-type pads may be used on hard-to-grip insulations such as Kapton® and some Teflon®.

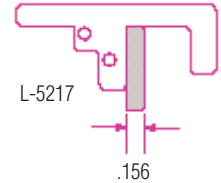
Stationary Gripper for Red Handle Units

For 10, 12 & 14 AWG Wire



Stationary Gripper for Black Handle Units

For 16 thru 30 AWG wire.



Replacement Gripper Pads

For Custom Stripmaster® and Custom Steel Stripmaster® Wire Strippers			
Surface Type	Gripper Set* Cat. No.	Movable Gripper Cat. No.	Stationary Gripper (Thickness)
Grit**	LB-197	L-5212	L-5215 (.129 in.)
Grit**	LB-198†	L-5212	L-5217 (.156 in.)
File	LB-721	LB-718	LB-719 (.129 in.)
File	LB-722‡	LB-718	LB-720 (.156 in.)
Parallel	LB-730	LB-727	LB-728 (.129 in.)
Parallel	LB-731	LB-727	LB-729 (.156 in.)

For Custom Stripmaster® Lite Wire Strippers

Surface Type	Gripper Set* Cat. No.	Movable Gripper Cat. No.	Stationary Gripper (Thickness)
Grit*	LB-1188	LB-882	LB-883 (.109 in.)
File	LB-1189	LB-1184	LB-1185 (.109 in.)
Parallel	LB-1190	LB-1186	LB-1187 (1.09 in.)

* Gripper Set includes one movable gripper, one stationary gripper.

** Grit pads are standard for most Custom Stripmaster® and Custom Stripmaster® Lite products.

† Formerly L-7954

‡ Formerly L-8928. These are for use on hard-to-grip surfaces such as Kapton® and Teflon®.

Gripper pad selection depends on insulation type and user preference.

Note: For wire gauge 10-14, use .129 in. stationary gripper. For 16-30 AWG, use .156 in. gripper.

Replacement Frame Assemblies

For Custom Stripmaster® Wire Strippers	Cat. No.
Frame only, 10-14 AWG	L-5616
Frame only, 16-30 AWG	L-5617
Frame only, 10-14 AWG, Wire Stop and Latch	L-5618
Frame only, 16-30 AWG, Wire Stop and Latch	L-5619
Frame only, 10-14 AWG, internal spring (see note)	L-9039
Frame only, 16-30 AWG, internal spring (see note)	L-9038

Note: Frames with internal springs allow additional blade penetration pressure for difficult and multi-layered insulation types.

For Custom Stripmaster® Lite Wire Strippers	Cat. No.
Frame only	LB-895
Frame only, Wire Stop and Latch	LB-896

For Custom Steel Stripmaster® Wire Strippers	Cat. No.
Frame only, 10-14 AWG	LB-1091
Frame only, 16-30 AWG	LB-1092
Frame only, 10-14 AWG, internal spring (see note)	LB-1090
Frame only, 16-30 AWG, internal spring (see note)	LB-1089

Note: Frames with internal springs allow additional blade penetration pressure for difficult and multi-layered insulation types.

Optional Accessories

Short Stop Latch	Cat. No.
For Custom & Custom Steel Stripmaster® Wire Strippers	L-5269
For Custom Stripmaster® Lite Wire Strippers	LB-1194

Transparent Adjustable Wire Stop Assembly	Cat. No.
For Custom & Custom Steel Stripmaster® Wire Strippers	L-5270
For Custom Stripmaster® Lite Wire Strippers	LB-1195

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

Description	Blade Gap ("x") vertical height	Blade Only Cat. No.	Frame & Blade Cat. No.
Custom Steel frame only	NA	NA	LB-1091
Flat blade for 26 AWG (.40mm dia.) multi-conductor	.022 in.	LB-1151	45-890
Flat blade for 24 AWG (.00mm dia.) multi-conductor	.030 in.	LB-1152	45-891
Flat blade for 22 AWG (.64mm dia.) multi-conductor	.038 in.	LB-1153	45-892
Flat blade for 20 AWG (.00mm dia.) multi-conductor	.050 in.	LB-1154	45-893
Flat blade for 18 AWG (1.02mm dia.) multi-conductor	.060 in.	LB-1155	45-894
Flat blade for 16 AWG (1.29mm dia.) multi-conductor	.075 in.	LB-1156	45-895

Teflon® and Kapton® are registered trademarks of E. I. du Pont de Nemours and Company.

Stripmaster® and Stripmaster® Lite Wire Strippers

- One-step stripping enhances productivity
- Spring-action motion increases leverage and reduces operator fatigue
- Precision-ground, knife-type blades provide clean, accurate stripping
- Sturdy die cast frame provides long-term durability
- Wire gripper holds wire securely in position
- Stripmaster® Lite designed for smaller hands — 3/4 the size of the standard Stripmaster®

Stripmaster® Wire Strippers and Knife-Type Blades



Stripmaster®



Stripmaster® Lite

Optional Accessories



Specifications — Stripping Hole Diameter (Inches)												Cat. No.	Replacement Blades (Pair) Cat. No.
Wire Size AWG													
8	10	12	14	16	18	20	22	24	26	28	30		
.159	.141	.106										45-090* or 45-290**	L-4419
	.144	.105	.085	.073	.073							45-091	L-4420
	.144	.113	.090	.072	.061	.048	.048					45-092* or 45-292**	L-4421
			.090	.072	.061	.039	.039					45-093	L-4422
				.072	.061	.048	.039	.032	.026			45-097	L-4994
						.048	.039	.032	.026	.021	.016	45-098	L-5361
.198	.167			.062	.055							45-099	L-8763

*Boxed **Blister Card

Tolerances A.001 -.005

Stripmaster® Lite Wire Strippers and Knife-Type Blades

Specifications — Stripping Hole Diameter (Inches)													Cat. No.	Replacement Blades (Pair) Cat. No.
Wire Size AWG														
12	14	16	18	20	22	24	26	28	30	16/18	20/22	Cutting Edge		
		.072	.061	.048	.039								45-671	LB-1001
						.032	.026	.021	.016				45-672	LB-1002
.113	.090	.072	.061 (All stranded wire)										45-673	LB-1003
.096	.085	.073	.061 (12 & 14 Solid wire, 16 & 18 Stranded wire)										45-674	LB-1004
										.072	.048	.250 Wide	45-675	LB-1005

Tolerances A.001 -.005

Coax Stripmaster® Wire Strippers and Blades



Description	Coax Cable Type (RGU)	Repl. Blade Cat. No.	Cat. No.
Coax Stripmaster® for RG-6	RG-6	LB-740	45-262
Coax Stripmaster® for RG-58	RG-58	LB-742	45-264
Coax Stripmaster® for RG-59	RG-59	LB-743	45-265
Coax Stripmaster® for RG-62	RG-62	LB-744	45-266
Coax Stripmaster® for RG-6 QuadShield	RG-6 QuadShield	LA-3953	45-282

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

Replacement Frame Assemblies	Cat. No.
For Stripmaster® Wire Strippers	L-5620
For Stripmaster® Lite Wire Strippers	LB-1421

Stripmaster® Wire Strippers with Rectangular Holes

Description	Cat. No.	Replacement Blades (Pair) Cat. No.
For Flat Telephone Cable (.60 in. or 1.52mm)	N/A	LB-1155
For European Flat Lamp Cord	45-089	L-8762
For SP-SPT Lamp Cord	45-095*	L-4452

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

Optional Accessories	Cat. No.
Transparent Adjustable Wire Stop (for Stripmaster® Wire Strippers)	L-5270
Transparent Adjustable Wire Stop (for Stripmaster® Lite Wire Strippers)	LB-1195
Replacement Moveable Gripper	L-1953

Stripmaster® Wire Strippers and Knife-Type Blades

Specifications — Stripping Hole Diameter (mm)												Cat. No.	Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.
Wire Size AWG														
8	10	12	14	16	18	20	22	24	26	28	30			
4	3.6	2.7										45-090 or 45-290	L-4419	L-5620
	3.6	2.7	2.2	1.8								45-091	L-4420	L-5620
	3.6	2.9	2.3	1.8	1.5	1.2						45-092 or 45-292-241	L-4421	L-5620
			2.3	1.8	1.5	1.2	1					45-093	L-4422	L-5620
				1.8	1.5	1.2	1	0.8	0.7			45-097	L-4994	L-5620
						1.2	1	0.8	0.7	0.5	0.4	45-098	L-5361	L-5620
5	4.2			1.6	1.4							45-099	L-8763	L-5620

Stripmaster® Lite Wire Strippers and Knife-Type Blades

Specifications — Stripping Hole Diameter (mm)													Cat. No.	Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.	
Wire Size AWG																
12	14	16	18	20	22	24	26	28	30	16/18	20/22	Cutting Edge				
		1.8	1.5	1.2	1								45-671	LB-1001	LB-1421	
						0.8	0.7	0.5	0.4				45-672	LB-1002	LB-1421	
2.9	2.3	1.8	1.5 (All stranded wire)											45-673	LB-1003	LB-1421
2.4	2.2	1.9	1.5 (12 & 14 Solid wire, 16 & 18 Stranded wire)											45-674	LB-1004	LB-1421
									1.8	1.2	6.4 wide		45-675	LB-1005	LB-1421	

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

Specifications—Stripping Hole Diameter (mm)														Cat. No.	Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.
Wire Size (mm²)																
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	45-090-341 or 45-290-341	L-4419M	LA-2358
						1.3	1.6	1.9	2.4	3	3.6			45-092-341 or 45-292-341	L-4421M	LA-2358
0.6	0.7	0.8	0.9	1	1.1									45-098-341 or 45-298-341	L-5361M	LA-2358

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

Specifications—Stripping Hole Diameter (mm)									Cat. No.	Replacement Blades (Pair) Cat. No.	Replacement Frame Cat. No.
Wire Size (mm²)											
0.05	0.1	0.15	0.22	0.34	0.5	0.75	1	1.5			
				1	1.1	1.3	1.6	1.9	45-671-341	LB-1001M	H-2909
0.6	0.7	0.8	0.9						45-672-341	LB-1002M	H-2909

Free Application Engineering Service and made-to-order Custom Stripmaster® and Stripmaster® Wire Strippers are available. Contact IDEAL INDUSTRIES, INC. for complete information at 1-800-435-0705.

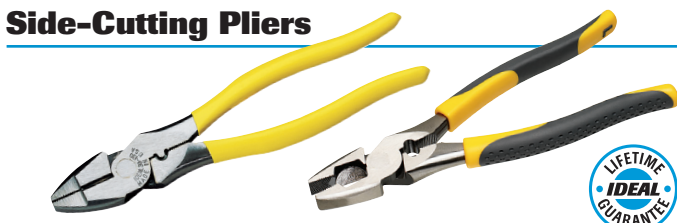
IDEAL Grips

Dipped Grips	
Smart-Grip™	
1000V Insulated Grips	

Dipped Grips — The industry standard for decades, our vinyl-coated handles provide a secure, comfortable grip. This classic design offers traditional functionality professionals have grown familiar with. Our standard catalog part numbers come with dipped grips.

Smart-Grip™ — Our new Smart-Grip™ pliers provide the latest innovation in material, design, durability and comfort. The underlying material is extra tough, providing durability and long life. The softer, comfort overmold improves tool control while giving a slip-proof ergonomic alternative to our dipped handles. Our special Santoprene™ material is resistant to perspiration, water, oil and chemicals and provides a sure grip even when wet. Our grips are color-coded on the ends, so each tool can be quickly and easily identified when in a tool pouch or pocket. In addition, identification markers on the insides of the handles make it easy to find the right tool even by touch. Smart-Grip™ pliers are listed in a separate chart and have a prefix of “3” in the catalog number.

Side-Cutting Pliers

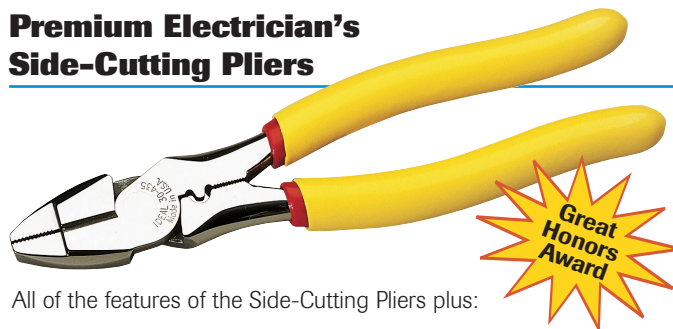


30-420 30-430 35-013 35-012

- Drop-forged, high-carbon steel construction withstands toughest applications
- Cuts hardened wire, bolts and ACSR
- Laser-hardened blades and serrated jaws for long-term durability
- High-leverage design provides 40% more cutting power
- Unique reverse rivet protects smooth action of plier movement
- Models with crimping die crimp bare and insulated terminals
- Vinyl-coated, comfort-grip handles for a secure grip
- Lifetime guarantee

Description (Dipped Handles)	Cat. No.
8-1/2 in. New England nose high-leverage w/crimping die	30-420
9-1/4 in. New England nose high-leverage w/fish tape puller	35-012
9-1/4 in. New England nose high-leverage w/crimping die	30-430
9-1/4 in. New England nose high-leverage w/box joint	35-013
Description (Smart-Grip™ Handles)	Cat. No.
9-1/4 in. New England nose high-leverage w/fish tape puller	35-3012
9-1/4 in. New England nose high-leverage w/crimping die	30-3430

Premium Electrician's Side-Cutting Pliers



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

- Mirror-polished finish to resist rust and maintain premium appearance
- Double-dipped grips for extra cushioning comfort
- Lifetime guarantee



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

Tongue and Groove Pliers



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



Description (Dipped Handles)	Jaw Opening (Inches)	Cat. No.
6-1/2 in. Tongue & Groove Pliers	7/8	35-426
9-1/2 in. Tongue & Groove Pliers	1-1/2	35-420
10 in. Tongue & Groove Pliers	2	35-430
12 in. Tongue & Groove Pliers	2-1/4	35-440
16 in. Tongue & Groove Pliers	4-1/4	35-460
Description (Smart-Grip™ Handles)	Jaw Opening (Inches)	Cat. No.
9-1/2 in. Tongue & Groove Pliers	1-1/2	35-3420
10 in. Tongue & Groove Pliers	2	35-3430

CAUTION: Never use pliers or cutters on live electrical circuits.

WARNING: The cushion grips on handles are for comfort, **NOT** protection against electrical shock and should not be used on live circuits.

WARNING: Plastic-dipped or slip-on handles **NOT** for protection against electrical shock.

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 resharpener
- Laser-hardened blades cut hardened wire, bolts and ASCR
- Vinyl-coated, comfort-grip handles for a secure grip
- Lifetime guarantee

Description (Dipped Handles)	Cat. No.
6 in.	35-036
7-3/4 in.	35-037
8-1/2 in.	35-038
8-1/2 in. w/Cutter & stripping holes for 12 & 14 AWG wire	35-039
Description (Smart-Grip™ Handles)	Cat. No.
7-3/4 in.	35-3037
8-1/2 in.	35-3038

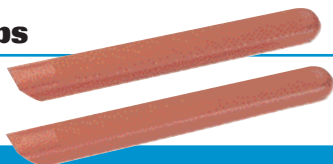
Multi-Crimp Tools



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

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

Tenite Grips



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

Diagonal-Cutting Pliers



Angled Head 35-029/35-3029

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

Description (Dipped Handles)	Cat. No.
6 in. High-leverage	35-026
7 in. High-leverage	35-027
8 in. High-leverage	35-028
8 in. High-leverage w/angled head	35-029
Description (Smart-Grip™ Handles)	Cat. No.
8 in. High-leverage	35-3028
8 in. High-leverage w/angled head	35-3029

Cable Cutters



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

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

Adjustable Wrenches



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

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

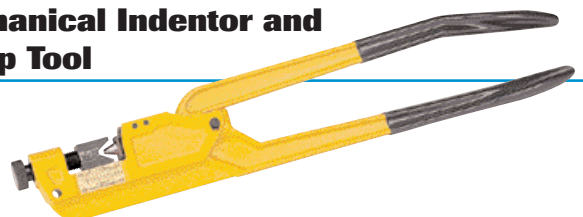
Crimp Tool



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

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

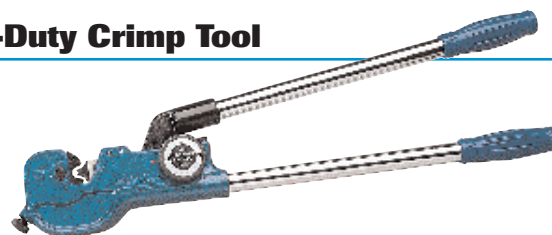
Mechanical Indenter and Crimp Tool



- 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
- Connections are UL Listed when using this tool with IDEAL Non-Insulated Terminals (#8 - #4 AWG). (See page A-17)

Description	Cat. No.
Mechanical Indenter	88-843

Heavy-Duty Crimp Tool

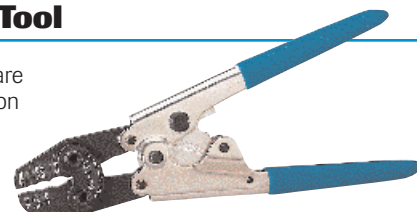


- Crimp nests for 2, 4, 6 or 8 AWG and 8-38 mm² uninsulated terminals
- Rotating crimp nests eliminate costly die changes
- Decimal and metric wire sizes clearly marked on each crimp nest
- Comfort-grip handles for a secure grip
- Connections are UL Listed when using this tool with IDEAL Non-Insulated Terminals (#8 - #4 AWG). (See page A-17)

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

Ratchet Crimp Tool

- Crimps insulated or bare terminals and splices on 10 to 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

Buchanan Construction Products Four-Way Crimp Tool

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



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

CAUTION: Never use pliers or cutters on live electrical circuits.

WARNING: The cushion grips on handles are for comfort, **NOT** protection against electrical shock and should not be used on live circuits.

WARNING: Plastic-dipped or slip-on handles **NOT** for protection against electrical shock.

PowerBlade™ Cable Cutter

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



(Drill not included)

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

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

Long-Arm Cable Cutters

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



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

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

Ratcheting Cable Cutter

- 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
- High-leverage foot provides stability and leverage when making multiple cuts
- Ergonomic, non-slip handles provide excellent grip and comfort
- 750 KCMIL Ratcheting Cable Cutter is designed to cut 750 KCMIL (MCM) and smaller hard-drawn copper and aluminum cables



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

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

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
- Ergonomic, non-slip handles provide excellent grip and comfort



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

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

Telco Ratcheting Cable Cutters

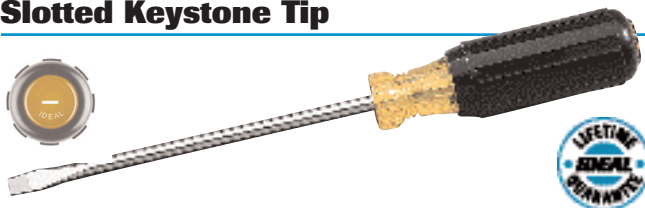
- Hardened steel blades ensure consistent cuts and long-term durability
- Rounded blade design minimizes cable distortion during cutting
- Quick release mechanism simplifies blade back-out
- Locking mechanism keeps handles closed for easy storage
- High-leverage foot provides stability and leverage when making multiple cuts
- Ergonomic, non-slip handles provide excellent grip and comfort
- Telco Ratcheting Cable Cutter jaw cuts up to 2,700 pair telephone cable and Stalpath® type communications cable



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

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

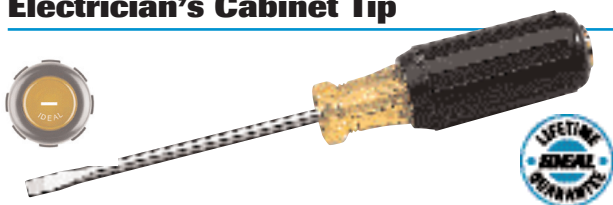
Slotted Keystone Tip



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

Description	Blade Length	Total Length	Cat. No.
1/4 in. Shank and tip	3 in.	7-3/8 in.	35-173
1/4 in. Shank and tip	6 in.	10-3/8 in.	35-176
1/4 in. Shank and tip	8 in.	12-3/8 in.	35-178
1/4 in. Shank and tip	10 in.	14-3/8 in.	35-180

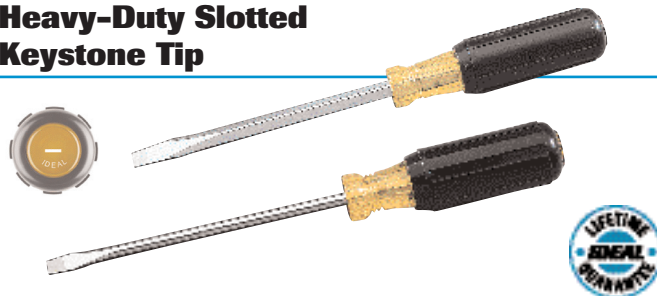
Electrician's Cabinet Tip



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

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

Heavy-Duty Slotted Keystone Tip

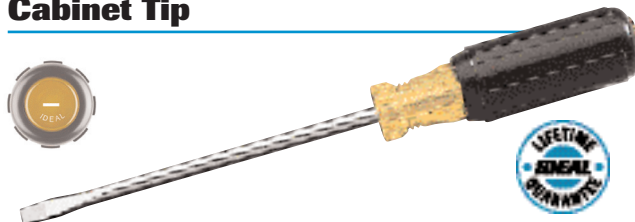


- Larger shank for heavy-duty applications
- Identification mark on ends
- Vapor-blasted tip prevents plate chipping
- Precision ground tip provides secure fit in screw slot
- Square-shank models offer wrench-assisted turning
- Tough, chrome vanadium steel shank
- Cushioned rubber grips
- Lifetime guarantee

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

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

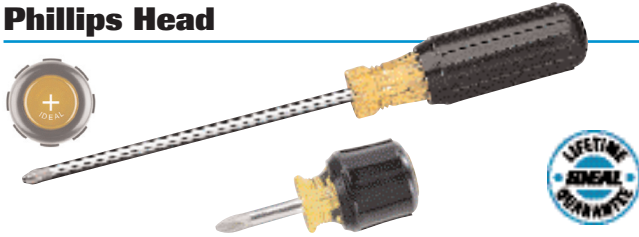
Heavy-Duty Electrician's Cabinet Tip



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

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

Phillips Head



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

Description	Blade Length	Total Length	Cat. No.
#2 Tip and 1/4 in. Shank	1 in.	3-3/8 in.	35-191
#1 Tip and 3/16 in. Shank	3 in.	6-3/4 in.	35-193
#2 Tip and 1/4 in. Shank	4 in.	8-3/8 in.	35-194
#2 Tip and 1/4 in. Shank	6 in.	10-3/8 in.	35-195
#3 Tip and 5/16 in. Shank	6 in.	11 in.	35-196

5-Piece Screwdriver Set

Includes:

- 1/4 in. x 6 in. HD Cabinet
- 1/4 in. x 4 in. Square Shank HD Keystone
- 5/16 in. x 6 in. Keystone
- 3/16 in. x 6 in. Cabinet
- Phillips #2 x 4 in.
- Heavy Duty Vinyl Pouch



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

8-Piece Screwdriver Set

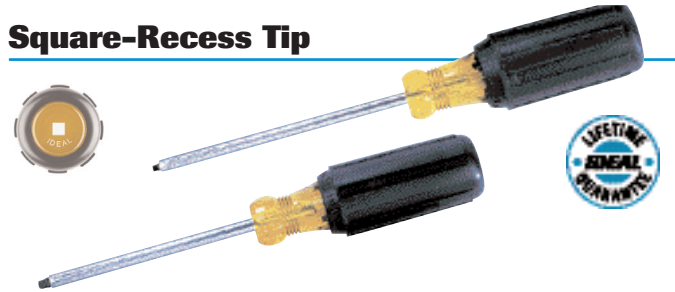
Includes:

- 1/4 in. x 6 in. HD Cabinet
- 1/4 in. x 4 in. Square Shank HD Keystone
- 1/4 in. x 4 in. HD Keystone
- 5/16 in. x 6 in. Keystone
- 3/16 in. x 3 in. Cabinet
- 3/16 in. x 6 in. Cabinet
- Phillips #1 x 3 in.
- Phillips #2 x 4 in.
- Heavy Duty Vinyl Pouch



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

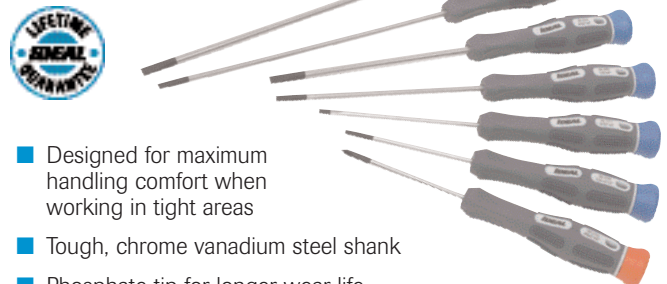
Square-Recess Tip



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

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

Slim Electronics



- Designed for maximum handling comfort when working in tight areas
- Tough, chrome vanadium steel shank
- Phosphate tip for longer wear life
- Rotating cap for optimum control for precise centering
- Color-coded cap for easy identification
- Lifetime guarantee

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

Twist-a-Nut Pro™ Electrician's Screwdriver

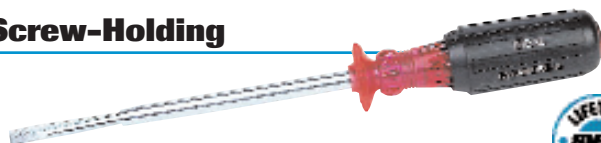


- Convenient wrench socket in end of handle
- Wire-looping hole in handle
- Vapor-blasted tip prevents plate chipping
- Precision ground tip provides secure fit in screw slot
- Tough, chrome vanadium steel shank



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

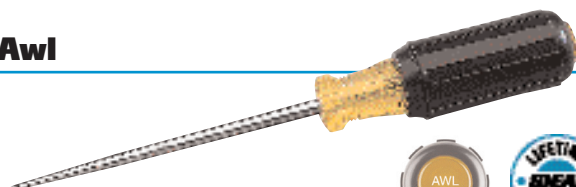
Screw-Holding



- Split blade wedges into screw slot when collar is extended
- Holds screw in place when installing in hard to reach locations
- Tough, chrome vanadium steel shank and comfort grip handle
- Lifetime guarantee

Description	Blade Length	Total Length	Cat. No.
3/16 in. x 4 in.	4 in.	8 in.	35-404
3/16 in. x 6 in.	6 in.	10 in.	35-406
3/16 in. x 8 in.	8 in.	12 in.	35-408

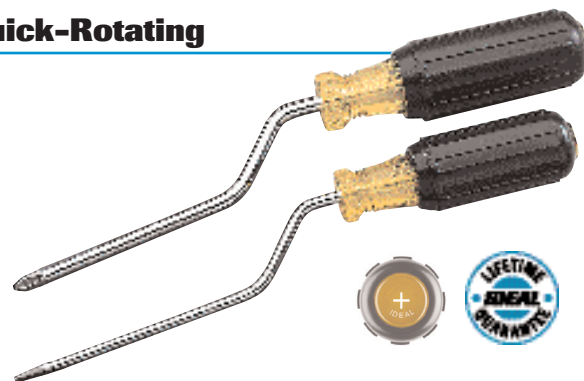
Awl



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

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

Quick-Rotating



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

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

Twist-a-Nut™ Conduit Deburring Tool



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



35-098

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

9-in-1 Ratch-a-Nut™ Screwdriver



- Ratcheting wire connector wrench prevents finger fatigue and gets in tight spots
- Premium screwdriver ratchet mechanism can handle high torque without failure
- Ergonomic, slip-free comfort grip
- Accepts Twist-a-Nut™ replacement bits
- Includes: 1/4 in. and 3/16 in. slotted, #1 & #2 Phillips, 1/4 in., 5/16 in., 7/16 in. nutdrivers, ratcheting screwdriver end, ratcheting wire connector wrench and wire-looping hole in handle

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

7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver

- Includes universal Wire-Nut® Wire Connector wrench in handle to help install twist-on wire connectors
- Includes wire-looping hole in handle
- Includes #1 & #2 Phillips, 1/4 in. & 3/16 in. slotted, 1/4 in. & 5/16 in. Nutdriver
- #35-909 includes #1 & #2 Square Recess in place of #1 & #2 Phillips
- Twist-a-Nut™ handle is interchangeable with new conduit deburrer head (#35-096) and 6-in-1 Tap (#35-922)



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

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

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

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

Twist-a-Nut™ Conduit Wiring Kit

- Includes Twist-a-Nut™ Screwdriver (35-908), Twist-a-Nut™ Deburring Head-Square Tip (35-098), Twist-a-Nut™ Tap Tool Shaft (35-923), Three Spare Bits (1/4 in. slotted & #2 square, 3/16 in. slotted & #1 square, #10 & #15 Torx®), 8-Pocket Carrying Pouch (35-927)
- Nylon carrying pouch holds all three Twist-a-Nut™ tools plus room for four replacement bits or taps
- Strong easy-slide metal belt clip



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

10-in-1 Screwdriver/Nutdriver

- Includes 1/4 in. slotted, #2 Phillips, 3/16 in. slotted, #1 Phillips, #1 & #2 square recess, #15 and #10 Torx® and 5/16 in. & 1/4 in. Nutdriver
- Cushion grip for comfort and performance



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

Replacement Bits (for 10-in-1 Screwdriver)

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

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

5-in-1 Screwdriver/Nutdriver

- Contains: 5/16 in. nutdriver, #1 Phillips, #2 Phillips, 9/32 in. slotted and 3/16 in. slotted
- Cushion grip for performance and comfort



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

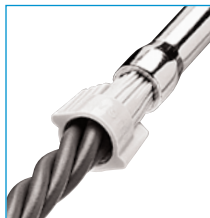
Replacement Bits (for 5-in-1 Screwdriver)

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

Nutmaster® Nutdriver



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



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

7-Piece Nutdriver Set

Includes:

- 3/16 in. x 3-1/4 in.
- 1/4 in. x 3-1/4 in.
- 5/16 in. x 3-1/4 in.
- 11/32 in. x 3-1/4 in.
- 3/8 in. x 3-1/4 in.
- 7/16 in. x 4 in.
- 1/2 in. x 4 in.



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

CAUTION: Never use pliers or cutters on live electrical circuits.

WARNING: The cushion grips on handles are for comfort, **NOT** protection against electrical shock and should not be used on live circuits.

WARNING: Plastic-dipped or slip-on handles **NOT** for protection against electrical shock.

6-in-1 Twist-a-Nut™ Tapping Tool

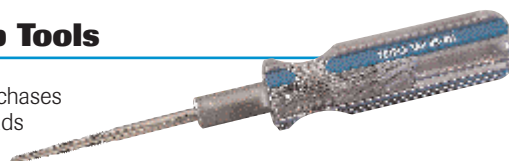
- Forms new threads, re-forms burred threads and cleans out obstructions
- Reversible, high-carbon tap with three clearly marked thread sizes on each end
- Handle is interchangeable with 7-in-1 Screwdriver (35-908) and Conduit Deburrer (35-083)



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

Triple-Tap Tools

- Cleans and chases burred threads
- Taps three hole sizes



Color Code	Thread Sizes	Cat. No.
Blue	10/24, 8/32, & 6/32	35-411
Orange	10/32, 8/32, & 6/32	35-412

Replacement Taps (for 35-922, 35-411 and 35-412)

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

Cable Splicing Knife

- High carbon steel blade remains sharp and cuts easily through many insulation types
- Comfortable, full size, no slip handle for easy use



Description	Cat. No.
Cable Splicing Knife and Leather Holder	35-091
Leather Knife Holder Only	35-092

Automatic Blade Lock Measuring Tape

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



Description	Cat. No.
Auto-Lock™ Tape Measure - 25 ft.	35-242
Dual-marked metric/imperial Auto-Lock™ Tape Measure - 7.5m	35-242M

Magnetic-Tip Measuring Tapes

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



Description	Cat. No.
Mag-Tape™ Tape Measure - 25 ft.	35-238
Dual-marked metric/imperial Mag-Tape™ Tape Measure - 7.5m	35-238M

Premium Utility Knife

- Quick-change utility blade requires no disassembly for replacement
- Stainless steel multi-purpose pocket knife blade included
- Non-slip comfort grip
- Built-in pull-line cutter
- Includes 2 spare blades in handle



Description	Cat. No.
Premium Utility Knife	35-282

Utility Knife

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



Description	Cat. No.
Utility Knife	35-300
Replacement blades — Universal (5/pack)	35-301

Hawkbill Knife

- 2-1/4 in. curved, high-carbon stainless steel blade locks in position
- Durable Buyrate® non-slip handle
- Brass liners



Description	Cat. No.
Hawkbill Knife	35-286

Electrician's Knife

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



Description	Cat. No.
Electrician's Knife	35-285

Lineman's Jack Knife

- 2-1/4 in. high-carbon steel, stainless steel sheepfoot blade locks in position
- Durable Buyrate® non-slip handle
- Brass liners



Description	Cat. No.
Lineman's Jack Knife	35-287

Hex-Key Sets

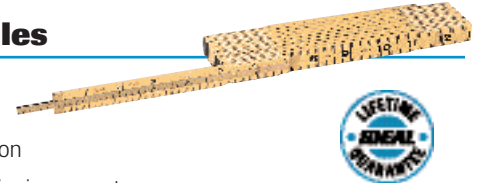
- 8650 steel construction
- One-piece, chrome-plated handle
- Internal tension spring and belt loop
- Lifetime guarantee



Description	Cat. No.
3 in. handle w/eight 2-in. keys (.050 in., 1/16 in., 5/64 in., 3/32 in., 7/64 in., 1/8 in., 9/64 in. & 5/32 in.)	35-145
4 in. handle w/nine 3-in. keys (5/64 in., 3/32 in., 7/64 in., 1/8 in., 9/64 in., 5/32 in., 3/16 in., 7/32 in. & 1/4 in.)	35-146
5-1/4 in. handle w/five 5-in. keys (3/16 in., 7/32 in., 1/4 in., 5/16 in. & 3/8 in.)	35-147

Extension Rules

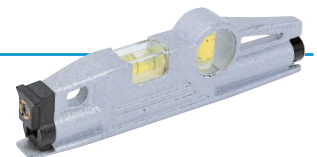
- Opens to 6 ft. with graduated 6 in. brass extension
- Markings at 1/16 in. increments with stud markings every 16 in.
- Embedded and sealed markings resist abrasion
- Hardwood slat construction with brass strike plates
- Positive-locking, spring-actuated folding joints
- Lifetime guarantee



Description	Cat. No.
Extension Rule w/inside read	35-220
Extension Rule w/outside read	35-221

Mini Laser Level

- Super bright 635nm laser shoots red dot or horizontal line
- Durable cast aluminum body
- Rare earth magnet for superior holding power
- Compact size for easy use and storage
- Levels and aligns conduit, electrical boxes and stud holes



Description	Cat. No.
Mini Laser Level	35-207

Torpedo Level

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



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

Fiberglass-Handled Hammers



- Drop-forged, tempered-steel polished head
- Strong, shock-absorbent fiberglass handle
- Long, straight claws simplify removal of electrical fixtures
- Comfortable, perforated Neoprene grips
- Electrician's version has elongated neck for hitting inside boxes



Description	Cat. No.
18 oz. x 12-1/2 in. Electrician's Fiberglass-handled Hammer	35-210
20 oz. x 12 in. Fiberglass-handled Hammer	35-212

Electric Engraving Tools

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



Description	Cat. No.
Engraver w/carbide-tipped point — 120V, 60 Hz	11-111
Engraver w/carbide-tipped point & 3-conductor grounded cord & plug — 120V, 60 Hz	11-113
Engraver w/carbide-tipped point — 220V, 50 Hz	11-115
Carbide-tipped replacement point	11-200
Diamond replacement point	11-201

Rotary BX/MC Cutters

- Handles all common BX, MC and Flex cables
- Blue sapphire blade cuts armor without damage to internal conductors
- Splices cleanly through casings with only a few turns
- Thumbscrew holds cable securely in place
- Epoxy-coated to resist corrosion
- Handle knob stores up to six replacement blades
- Cuts #14, #12 and #10 BX
- Cuts #8-1 and 3/8" flex
- Cuts MC cables with 2, 3 or 4 wires



35-780

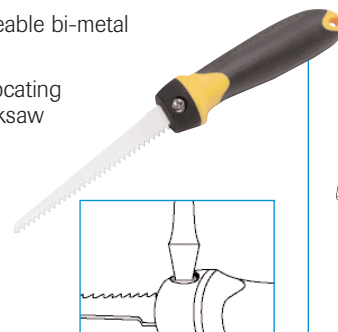


35-782

Description	Cat. No.
Rotary BX/MC Cutter with thumb screw	35-780
Replacement blades (5 per pack)	35-781
Rotary BX/MC Cutter with lever	35-782

Jab Saw

- Includes replaceable bi-metal wallboard blade
- Holds all reciprocating blades and hacksaw blades
- Ergonomic grip



Description	Cat. No.
Jab Saw	35-275
Replacement blade	36-088

Monster-Wipes™ The Multi-Purpose Towel

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



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



Tool Kits

Tool kits designed to meet the needs of the professional electrician, from apprentice to master electrician. Kit selections have been established with the guidance from leading electrical trainers and seasoned master electricians. Whether you're just starting out or are a seasoned professional, IDEAL Tool Kits provide the perfect carrier and tools to do the job.

Premium Leather Line

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



Standard Leather Line

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

Fabric Line

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



Premium Tool Carrier Tool Kit



Kit 35-804 Includes:

Description	Cat. No.
Smart-Grip™ Side-Cutter Pliers w/Crimp, 9 in.	30-3430
Multi-Crimp Tool	30-429
Fuse Puller, Pocket	34-002
Diagonal Cutting Pliers, 8 in.	35-028
Long Nose Pliers w/Cutter, 8 in.	35-038
Round Shank Screwdriver, 1/4 in. x 4 in.	35-164
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 3/16 in. x 3 in. x #1	35-193
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Torpedo Level, 9 in.	35-205
Auto-Lock™ Tape Measure, 25 ft.	35-242
Hawkbill Knife	35-286
Premium Tuff-Tote™ Tool Carrier - Black	35-969BLK
Reflex™ T®-5 T®-Stripper Wire Stripper	45-415

Master Electrician's Kit



Kit 35-809 Includes:

Description	Cat. No.
Round Shank Screwdriver, 1/4 in. x 4 in.	35-164
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 3/16 in. x 3 in. x #1	35-193
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Torpedo Level, 9 in.	35-205
Electrician's Hammer, 18 oz.	35-210
Auto-Lock™ Tape Measure, 25 ft.	35-242
Hawkbill Knife	35-286
Smart-Grip™ High-leverage Pliers, New England, 9 in.	35-3012
Smart-Grip™ Long Nose Pliers w/Cutter, 8 in.	35-3038
Smart-Grip™ Cable Cutter, 2/0, 9-1/2 in.	35-3052
Smart-Grip™ Tongue & Groove Pliers, 10 in.	35-3430
Screw-Holding Screwdriver, 3/16 in. x 6 in.	35-406
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	35-908
Tuff-Tote™ Ultimate Tool Carrier, Premium Leather	35-975
Kinetic™ Reflex™ T®-Stripper Wire Stripper	45-915
Vol-Con® XL Voltage/Continuity Tester	61-086

Standard Tool Pouch Tool Kit



Kit 35-800 Includes:

Description	Cat. No.
Offset Diagonal Cutting Pliers, 8 in.	35-029
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	35-908
Cable Cutter, 2/0, 9-1/2 in.	35-052
Round Shank Screwdriver, 1/4 in. x 4 in.	35-164
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Electrician's Hammer	35-210
Auto-Lock™ Tape Measure, 25 ft.	35-242
Electrician's Knife	35-285
Smart-Grip™ Long Nose Pliers	35-3038
Tuff-Tote™ Tool Pouch, Standard Leather	35-311
1-3/4 in. Buckle Belt	35-316
Smart-Grip™ Side-Cutter Pliers w/Crimp, 9 in.	30-3430
Tongue & Groove Pliers, 9.5 in.	35-420
Premium T®-5 T®-Stripper Wire Stripper	45-215
Vol-Con® XL Voltage/Continuity Tester	61-086
Replacement Battery	61-201

Journeyman Electrician's Kit



Kit 35-790 Includes:

Description	Cat. No.
Fuse Puller, Pocket	34-002
Round Shank Screwdriver, 1/4 in. x 4 in.	35-164
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 3/16 in. x 3 in. x #1	35-193
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Torpedo Level	35-205
Auto-Lock™ Tape Measure, 25 ft.	35-242
Hawkbill Knife	35-286
Smart-Grip™ High Leverage Pliers, New England, 9 in.	35-3012
Smart-Grip™ Long Nose Pliers w/Cutter, 8 in.	35-3038
Smart-Grip™ Tongue & Groove Pliers, 10 in.	35-3430
Journeyman Electrician's Tote™	35-462
Kinetic™ Reflex™ T®-Stripper Wire Stripper	45-915

Large Mouth 18" Kit



Kit 35-808 Includes:

Description	Cat. No.
Large Mouth Bag, 18 in., Blue	35-427
Reflex™ T®-5 T®-Stripper Wire Stripper	45-415
High-Leverage Pliers, New England, 9 in.	35-012
Long Nose Pliers w/Cutter, 8 in.	35-038
Tongue & Groove Pliers, 10 in.	35-430
Cable Cutter, 2/0, 9-1/2 in.	35-052
Combo Crimp/Strip Tool	30-428
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 3/16 in. x 3 in. x #1	35-193
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Round Shank Screwdriver, 1/4 in. x 4 in.	35-164
Hawkbill Knife	35-286
Auto-Lock™ Tape Measure, 25 ft.	35-242
Fuse Puller, Pocket	34-002
Electrician's Hammer	35-210
Ergonomic Hacksaw	35-261

Electrician's Tool Kit



Kit 35-805 Includes:

Description	Cat. No.
Electrician's Tool Pouch	10-466
2 in. Web Belt	10-398
High-Leverage Pliers, New England, 9 in.	35-012
Diagonal Cutting Pliers, 8 in.	35-028
Long Nose Pliers w/Cutter, 8 in.	35-038
Cabinet Tip Screwdriver, 3/16 in. x 4 in.	35-184
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 3/16 in. x 3 in. x #1	35-193
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
Auto-Lock™ Tape Measure, 25 ft.	35-242
Tongue & Groove Pliers, 10 in.	35-430
Premium T®-5 T®-Stripper Wire Stripper	45-215

6-Piece Hip Kit



Kit 35-794 Includes:

Description	Cat. No.
6-Pocket Hip Pouch, Black	35-784BLK
Smart-Grip™ Side Cutter Plier w/Crimp Die	30-3430
Auto-Lock™ Tape Measure, 25 ft.	35-242
Utility Knife	35-300
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	35-908
Kinetic™ Reflex™ T®-Stripper Wire Stripper, 10-18 AWG	45-915

5-Piece Hip Kit



Kit 35-792 Includes:

Description	Cat. No.
6-Pocket Hip Pouch, Black	35-784BLK
High-Leverage Pliers, New England, 9 in.	35-012
Cabinet Tip Screwdriver, 3/16 in. x 6 in.	35-186
Phillips Screwdriver, 1/4 in. x 4 in. x #2	35-194
T®-5 T®-Stripper Wire Stripper	45-120

4-Piece Hip Kit



Kit 35-793 Includes:

Description	Cat. No.
3-Pocket Hip Pouch, Standard	35-964
Smart-Grip™ Side Cutter Plier w/Crimp Die, 9 in.	30-3430
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	35-908
Kinetic™ Reflex™ T®-Stripper Wire Stripper, 10-18 AWG	45-915

Tuff-Tote™ Ultimate Tool Carriers



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

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

Electrician's Tool Pouch

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



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

Hip Holster Tool Pouches

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



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

Tuff-Tote™ Tool Carriers



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

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

Tuff-Tote™ Tool Pouches



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

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

Tuff-Tote™ Shoulder Bag



- Compact tool organizer with closing flap for added security and protection
- Features three inside compartments with six screwdriver loops, small closed outside pocket for small tools or connectors and flat back pocket for papers or slim tools
- Exclusive leather-wrapped grab handle for carrying comfort
- Detachable shoulder strap helps relieve lower back strain
- Rust-resistant, plated-steel hardware and heavy, lock-stitched nylon thread for long-term durability

Description	Cat. No.
Premium Leather Shoulder Bag w/shoulder strap	35-980
Premium Black Leather Shoulder Bag w/shoulder strap	35-980BLK

Tuff-Tote™ Cell Phone Pouches



- Fits most phones
- Closing flap for added security and protection
- Convenient belt strap

Description	Cat. No.
Premium Leather Pouch w/belt strap	35-958
Premium Black Leather Pouch w/belt strap	35-958BLK

Tuff-Tote™ Tester Pouches



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

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

Note: Tester sold separately

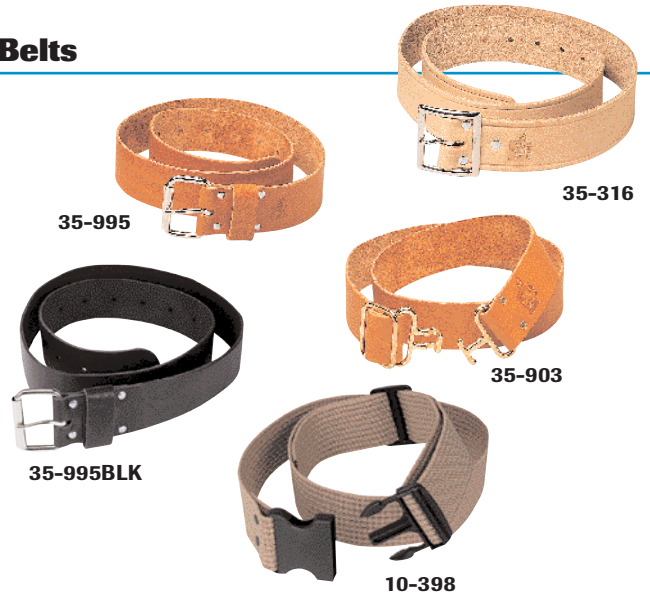
Shoulder Straps



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

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

Belts

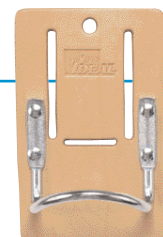


- Nickel-plated hardware for long-term durability and corrosion resistance

Description	Cat. No.
Premium Leather Belt – 2 in. x 48 in.	35-995
Premium Black Leather Belt – 2 in. x 48 in.	35-995BLK
Premium Leather Belt w/Clasp Buckle – 2 in. x 48 in.	35-903
Standard Leather Belt – 1-3/4 in. x 46 in.	35-316
Web Belt	10-398

Hammer Holder

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



Description	Cat. No.
Hammer Holder	10-399

Pocket Pal™ Tool Holsters

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



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

Note: Tools sold separately.

Belt Bag™ Supplies Pouches

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



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

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

Divider Pouch™ Small Parts Bag

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

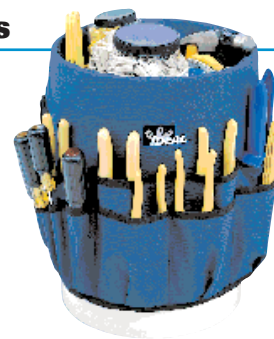


Description	Cat. No.
Divider Pouch™ — Blue	35-655

Note: Wire Connectors sold separately.

Bucket Bag Tool Carriers

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



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

Note: Tools sold separately.

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 Carrier™/Electrician's Carrier™ Tool Bags



- Stitched outer pockets provide convenient storage and quick access for frequently used tools
- Heavy-duty, 18 oz. canvas construction
- Velcro® closure protects contents from loss

Description	Cat. No.
Tool Carrier™ Tool Bag — 7-1/2 in. D x 17 in. L x 6-1/4 in. W	35-533
Electrician's Carrier™ Tool Bag — 10 in. D x 17 in. L x 6-1/4 in. W	35-534

Note: Tools sold separately.

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



Description	Cat. No.
Large Mouth Bag — 13 in. long — Blue	35-410
Large Mouth Bag — 16 in. long — Blue	35-418
Large Mouth Bag — 18 in. long — Blue	35-427
Large Mouth Bag — 20 in. long — Blue	35-431
Large Mouth Bag — 24 in. long — Blue	35-463

Note: Tools sold separately.

Canvas Tool Bag

- Extra large 16 in. x 16 in. tool bag
- Reinforced steel framework
- Genuine leather handles and straps
- Heavy-weight canvas sides with interior pocket



Description	Cat. No.
Canvas Tool Bag	35-302

Journeyman Electrician's Tote™

- Compact and versatile design
- Carry as a hand-tote, shoulder-tote, or tool-belt
- Includes removable shoulder strap and belt
- Durable multi-ply construction



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

Master Electrician's Tote™

- Spacious and durable design
- Organizes and displays tools for fast access
- Includes removable shoulder strap
- Durable multi-ply construction



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

Zipper Pouches

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



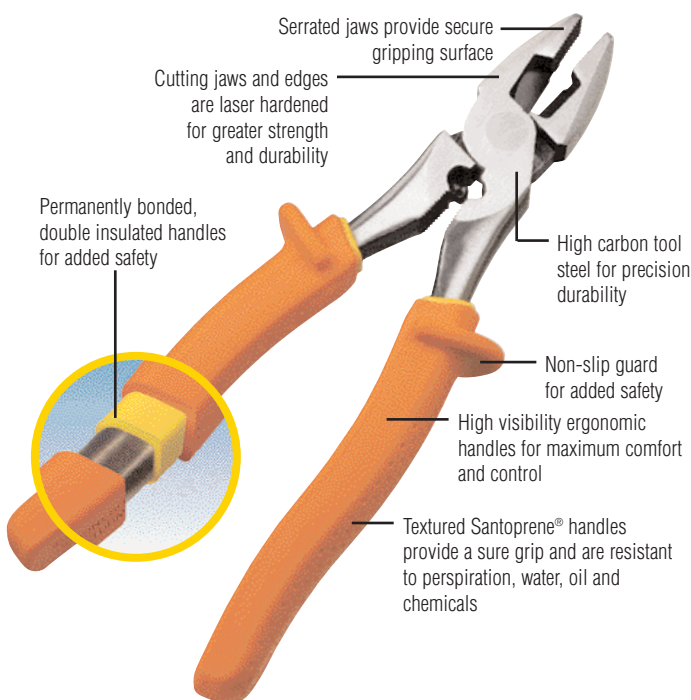
Description	Cat. No.
Zipper Pouch 10-1/2 in. long — Blue	35-402
Zipper Pouch 12-1/2 in. long — Blue	35-403

Insulated Tools

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

Pliers

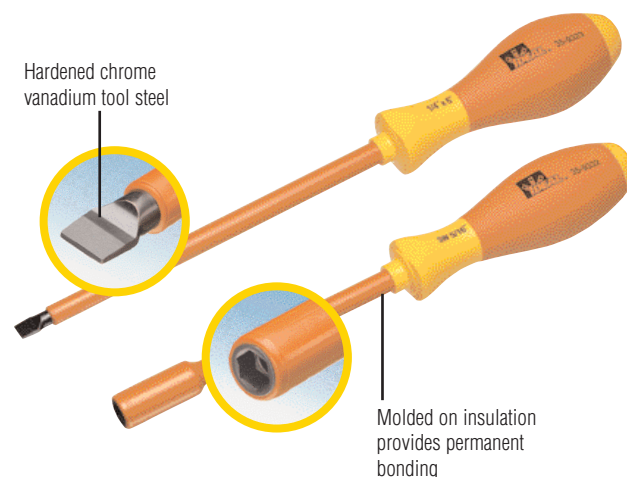
- First UL tested and classified insulated tools available
- 1000 Volt certified (1000V AC, 1500V DC)
- Meets ASTM F1505-01 and IEC 60 900 standards
- Meets OSHA requirements for insulated tools (29 CFR 1910)



Screwdrivers

IDEAL insulated screwdrivers and nutdrivers are individually tested and VDE certified to 1000V AC (1500V DC). Each one is designed and tested to meet ASTM F1505-01, EN, DIN, and IEC 60 900 test standards.

- Ergonomic cushioned grips provide 40% more torque than conventional handles, even when wearing gloves
- Tempered blades finished with black oxide and super hardened for maximum quality
- Precision ground tips provide secure fit for less spin-out
- Meets OSHA requirement (29 CFR 1910) for insulated tools



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

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

REGULATIONS

Testing:

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

UL and VDE Certification:

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

OSHA Regulations:

OSHA 1910.335(a)(2)(i) When working near exposed energized conductors or circuit parts, **each employee shall use insulated tools** or handling equipment if the tools or handling equipment might make contact with such conductors or parts.

OSHA 1910.335 (a)(1)(i) Employees working in areas where there are potential electrical hazards **shall be provided with, and shall use**, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be performed.

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

5-in-1 Non-Conductive Screwdriver/Nutdriver

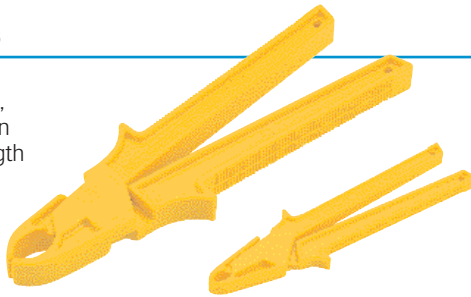


- 1000V AC, 1500V DC rated per ASTM F 1505-01 and EN 60900 (IEC900)
- Contains: 1/4 in. slotted, 3/16 in. slotted, #1 Phillips, #2 Phillips and 1/4 in. nutdriver
- Accommodates most standard 1/4 in. hex bits
- Powerful magnet securely holds bits in place
- Handle will store up to 8 standard bits
- Strong 6 in. non-conductive composite material shank

Description	Cat. No.
5-in-1 Non-Conductive Screwdriver/Nutdriver	35-9905
1/4 in. Slotted Replacement Bit	LA-4125
3/16 in. Slotted Replacement Bit	LA-4126
#1 Phillips Replacement Bit	LA-4127
#2 Phillips Replacement Bit	LA-4128

Fuse Pullers

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



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

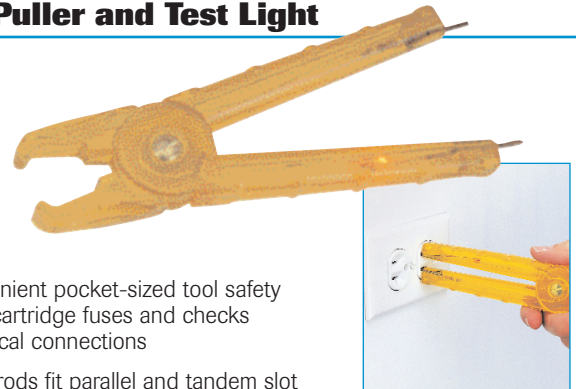
Safe-T-Grip® Fuse Pullers



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

Fuse Puller and Test Light



- Convenient pocket-sized tool safely pulls cartridge fuses and checks electrical connections
- Test prods fit parallel and tandem slot receptacles
- Built-in resistors limit current flow to eliminate false indication
- For 9/16 in. to 1 in. fuses
- For use on fuses to 100A/250V and 60A/600V
- Test capacity from 100V to 600V AC/DC

Description	Cat. No.
Fuse Puller & Test Light only	34-012
30 in. Lead w/test prod	34-013
30 in. Lead w/insulated clip	34-014

25-Piece Journeyman Kit



25-Piece Journeyman Insulated Kit – 35-9302

Includes:	Cat. No.
Reflex™ Super T®-Stripper Wire Stripper	45-9615
Wire Stripper Cutter	45-9120
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
10 in. Tongue and Groove Pliers	35-9430
9-1/2 in. High-Leverage Cable Cutter	35-9052
9-3/4 in. Multi-Crimp Tool	30-9429
1/8 in. x 3 in. Screwdriver	35-9320
3/16 in. x 5 in. Screwdriver	35-9321
1/4 in. x 6 in. Screwdriver	35-9323
5/16 in. x 6 in. Screwdriver	35-9324
3/8 in. x 8 in. Screwdriver	35-9325
#1 x 3 in. Phillips Tip Screwdriver	35-9310
#2 x 4 in. Phillips Tip Screwdriver	35-9311
#3 x 6 in. Phillips Tip Screwdriver	35-9312
3/16 in. Hex Nutdriver	35-9330
1/4 in. Hex Nutdriver	35-9331
5/16 in. Hex Nutdriver	35-9332
3/8 in. Hex Nutdriver	35-9333
7/16 in. Hex Nutdriver	35-9334
1/2 in. Hex Nutdriver	35-9335
Knife	35-9340
Volt-Sensor® NCV Tester	61-063
Fuse Puller - 7-1/2 in. long	34-002
Heavy-Duty Soft Tool Case	35-9352



Our pliers are the first Insulated Tools to have successfully passed UL classification requirements!

Recognized as the undisputed leader in product safety and certification, UL has developed rigorous safety standards for 1000V insulated tools. In order to carry the UL classified mark, tools must be tested by UL to meet these standards.

Only tools that carry the UL classified mark have passed this stringent certification process. Why accept anything else?

9-Piece Basic Kit



9-Piece Basic Insulated Kit – 35-9300

Includes:	Cat. No.
Reflex™ Super T®-Stripper Wire Stripper	45-9615
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
9-1/2 in. High-Leverage Cable Cutter	35-9052
3/16 in. x 5 in. Screwdriver	35-9321
1/4 in. x 6 in. Screwdriver	35-9323
#2 x 4 in. Phillips Tip Screwdriver	35-9311
Fuse Puller - 7-1/2 in. long	34-002
Heavy-Duty Soft Tool Case	35-9350

Insulated Screwdrivers



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

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

17-Piece Standard Kit



17-Piece Standard Insulated Kit – 35-9301

Includes:	Cat. No.
Reflex™ Super T®-Stripper Wire Stripper	45-9615
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
10 in. Tongue and Groove Pliers	35-9430
9-1/2 in. High-Leverage Cable Cutter	35-9052
1/8 in. x 3 in. Screwdriver	35-9320
3/16 in. x 5 in. Screwdriver	35-9321
1/4 in. x 6 in. Screwdriver	35-9323
5/16 in. x 6 in. Screwdriver	35-9324
3/8 in. x 8 in. Screwdriver	35-9325
#1 x 3 in. Phillips Tip Screwdriver	35-9310
#2 x 4 in. Phillips Tip Screwdriver	35-9311
#3 x 6 in. Phillips Tip Screwdriver	35-9312
Volt-Sensor® NCV Tester	61-063
Fuse Puller - 7-1/2 in. long	34-002
Heavy-Duty Soft Tool Case	35-9351
Insulated Electrician's Skinning Knife	35-9340

Insulated Nutdrivers



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

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

Insulated Pliers



Description	Cat. No.
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
9-1/2 in. High-Leverage Cable Cutter	35-9052
9-3/4 in. Multi-Crimp Tool	30-9429
10 in. Tongue and Groove Pliers	35-9430
Premium T®-Stripper Wire Stripper	45-9120
Reflex™ Super T®-Stripper Wire Stripper	45-9615

Insulated Knife



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

1000V Insulated Screw-Holding Screwdriver

- Split blade wedges into screw slot when collar is extended
- Holds screw in place when installing in hard to reach areas
- Easy to start screw when wearing gloves



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

Cases



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



Cutting & Holemaking Tools

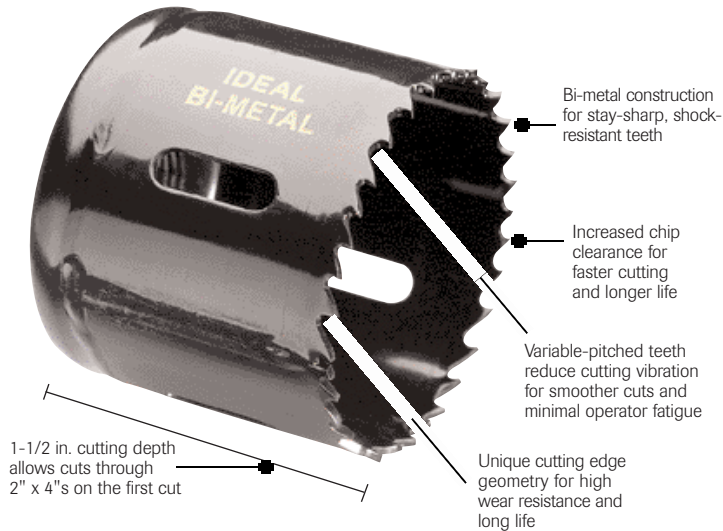
***IDEAL cutting tools
offer a powerful line-up that includes...***

- A new line of hole saws. Superior bi-metal construction provides an incredible cutting longevity that outperforms other brands.
- New Nailbiter™ Ship Augers that outperform and outlast any auger on the market today.
- Reciprocating blades for the toughest applications. Engineered bi-metal blades last up to 10 times longer than those constructed in carbon steel.
- Step drills that deliver! Titanium nitride coating cuts cleaner and cooler than conventional step drills.
- A broad line of engineered drill bits that deliver superior performance at any job site.
- An expanded range of hacksaws and all-purpose hand saws.



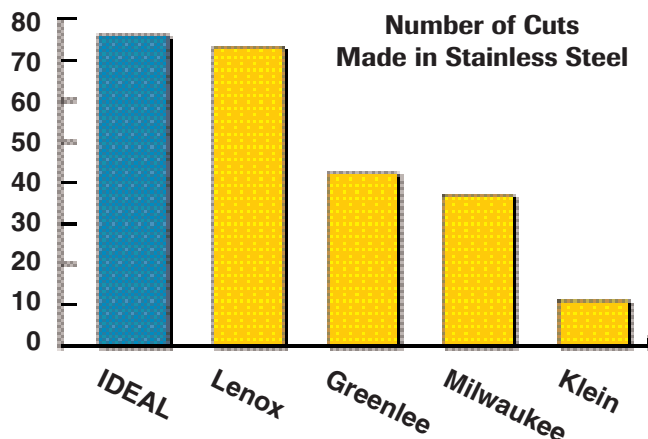
Advanced Bi-Metal Hole Saws

Introducing the new line of hole saws from IDEAL. With re-engineered bi-metal construction, IDEAL hole saws now have a cutting longevity that rivals any in the industry. The new cutting tooth geometry works faster and longer on tough applications like stainless steel. Increased chip removal enhances wood cutting performance by increasing speed and reducing wear on the teeth. An extensive set of sizes and kits are available to meet all your cutting needs. When it comes to performance, IDEAL is your source for hole saws.



Hole Saws

- 1-1/2 in. cutting depth cuts through 2 x 4's on the first cut
- Cut wood, plastic and machinable metal including: nail-embedded wood, plywood, pipe and stainless steel
- High speed steel teeth
- Fit standard arbors and feature knock-out slots for easy core removal
- Variable pitch, positive rake, M3 bi-metal tooth design



Saw Diameter (Inches)	Pipe Tap Size* (Inches)	Pipe Entrance Size* (Inches)	Cat. No.
Use Arbor No. 35-391 or 35-392 or 35-393			
9/16	—	—	35-340
5/8	—	—	35-341
11/16	—	—	35-342
3/4	1/2	3/8	35-343
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
Use Arbor No. 35-394			
1-1/4	—	—	35-351
1-5/16	—	—	35-352
1-3/8	—	1	35-353
1-7/16	—	—	35-354
1-1/2	1-1/4	—	35-355
1-9/16	—	—	35-356
1-5/8	—	—	35-357
1-11/16	—	—	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	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	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.

*The sizes listed provide the necessary information whenever a pipe is to be threaded into tanks, boilers, etc. To ensure the best results, the hole should be reamed before tapping with a reamer having a taper of 3/4 in. per foot.

**The sizes listed provide the necessary information for any given pipe size to have sufficient clearance to pass through beams, walls, bulkheads, etc.

Hole Saw Arbors



- 1/4 in. high-speed drill pilots with 118° split-point for fast, accurate hole starting
- Durable steel construction

Shank Size	Thread Size	Chuck Size	Cat. No.
1/4 in. Round	1/2-20	1/4	35-391
3/8 in. Hex	1/2-20	3/8	35-392
7/16 in. Hex	1/2-20	1/2	35-393
7/16 in. Hex	5/8-18	1/2	35-394
3/8 in. Hex	5/8-18	3/8	35-395



Replacement Pilot Drills for Hole Saw Arbors

Description	Cat. No.
4-1/2 in. x 1/4 in. — Fits 35-391, 35-393, 35-394 & 35-395 arbors	35-397
2-3/4 in. x 1/4 in. — Fits 35-392 arbor	35-398

Hole Saw Arbor Extension

- For use with 7/16 in. arbors
- 12 in. length



Description	Cat. No.
12" Hole Saw Arbor Extension for 7/16 in. Arbors	35-396

Hole Saw Kits

Master Electrician's Hole Saw Kit

- Electrical sizes for pipe and conduit through 4 in.
- 13-piece kit
- Metal case



Kit 35-401 Includes:

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

Electrician's Hole Saw Kit

- Electrical sizes for pipe and conduit through 2 in.
- 8-piece kit
- Durable plastic case



Kit 35-400 Includes:

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

Maintenance Hole Saw Kit

- Designed for electricians and industrial and general-purpose maintenance needs.
- Plumbing and electrical sizes for pipe and conduit through 2 in.
- 13-piece kit
- Durable plastic case



Kit 35-399 Includes:

Description	Cat. No.
Hole Saw sizes 3/4 in., 7/8 in., 1-1/8 in., 1-3/8 in., 1-1/2 in., 1-3/4 in., 2 in., 2-1/4 in. & 2-1/2 in. Also includes arbor models 35-391, 35-393 & 35-394 and extension for 7/16 in. arbor shank	35-399

Tungsten Carbide Grit Hole Saws

- Superior resistance to heat, wear and abrasion
- Unique snag resistant tooth/gullet design results in superior cutting performance
- The choice for abrasive or thin material including cast iron, drywall, plaster, stucco, ceramics, fiberglass, hardwood and composites
- 1-1/2 in. cutting depth



Description	Cat. No.
Use Arbor No. 35-391, 35-392 or 35-393	
3/4 in. Carbide Grit Hole Saw	35-343CG
7/8 in. Carbide Grit Hole Saw	35-345CG
1-1/8 in. Carbide Grit Hole Saw	35-349CG
Use Arbor No. 35-394 or 35-395	
1-3/8 in. Carbide Grit Hole Saw	35-353CG
1-1/2 in. Carbide Grit Hole Saw	35-355CG
1-3/4 in. Carbide Grit Hole Saw	35-359CG
2 in. Carbide Grit Hole Saw	35-362CG
2-1/8 in. Carbide Grit Hole Saw	35-364CG
2-1/4 in. Carbide Grit Hole Saw	35-365CG
2-1/2 in. Carbide Grit Hole Saw	35-368CG
2-5/8 in. Carbide Grit Hole Saw	35-370CG
3 in. Carbide Grit Hole Saw	35-373CG
3-1/4 in. Carbide Grit Hole Saw	35-375CG
3-5/8 in. Carbide Grit Hole Saw	35-378CG

Step Bits



35-511 35-512 35-513 35-514 35-515 35-516 35-517

- Self-starting point eliminates starter holes or punches, even on curved surfaces (except 35-514)
- Unique double-fluted design for balanced cuts and cooler operation
- Exceptional titanium coating stands up to wood, plastic and metal – extends bit life compared to standard step bits

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

Adjustable Can Light Hole Saw

- Cuts drywall and ceiling tile
- Self-sharpening carbide coated cutting blade
- Includes 2 dust shields to minimize clean up



Drill not 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

Recessed Lighting Hole Saws

- Durable tungsten carbide grit cutting edge
- Quick and easy installation of recessed lighting
- Cut abrasive materials such as ceiling tile, lath and plaster
- Use with arbor 35-394



Description	Cat. No.
4-3/8 in. Carbide Grit Hole Saw	35-384CG
6-3/8 in. Carbide Grit Hole Saw	35-601CG
6-5/8 in. Carbide Grit Hole Saw	35-602CG
6-7/8 in. Carbide Grit Hole Saw	35-603CG

Electrician's Step Bit Kit

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

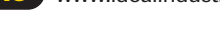


Description	Cat. No.
Electrician's Step Bit Kit	35-520

Reciprocating Blades

- Bi-metal blades last up to 10 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 inch universal shank



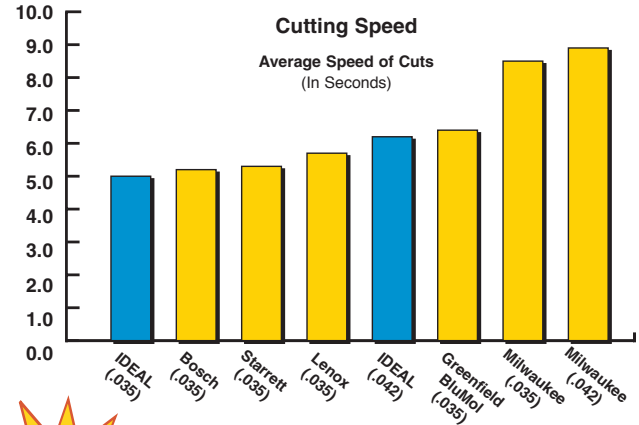
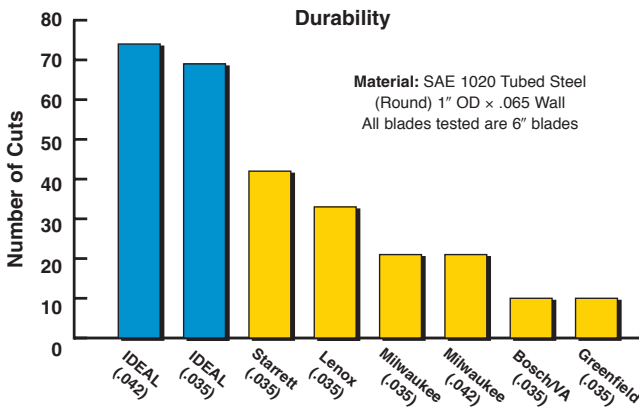
	L/W/TH (Inches)	TPI	Material	Blade Bock	Qty.	Application	Cat. No.
Metal Cutting							
	6 x 3/4 x .035	14	Bi-metal	Straight	5	Pipe, structural steel, stainless steel: 3/32" - 1/4", Non-ferrous metal: 3/32" - 3/8"	36-059
	6 x 3/4 x .035	14	Bi-metal	Straight	25	Pipe, structural Steel, stainless steel: 3/32" - 1/4", Non-ferrous metal: 3/32" - 3/8"	36-059B
	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
	6 x 3/4 x .035	18	Bi-metal	Straight	25	Structural steel, pipe conduit, stainless steel: 1/16" - 3/16" thick, Non-ferrous metal: 1/16" - 5/16" thick	36-057B
	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	36-060
	6 x 3/4 x .035	24	Bi-metal	Straight	5	All metal less than 1/8" thick: Tubing conduit, trim	36-058
	6 x 3/4 x .035	24	Bi-metal	Straight	25	All metal less than 1/8" thick: Tubing conduit, trim	36-058B
Heavy-Duty Metal Cutting							
	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
	6 x 3/4 x .050	6	Bi-metal	Taper	25	Fast cutting, roughing-in work, nail-embedded wood, remodeling	36-065B
	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



Long-Life Blades	L/W/TH (Inches)	TPI	Material	Blade Bock	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: 1/16" - 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: 1/16" - 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.



Long-Life Blades	L/W/TH (Inches)	Material	Blade Bock	Qty.	Application	Cat. No.
	6 x 3/4 x .035	Progressive	Bi-metal	5	All metal, non-ferrous metal, sheet metal, pipe, and other metal materials	36-056
	8 x 3/4 x .050	Progressive	HCS	5	All wood and composite materials	36-052
	8 x 3/4 x .050	Progressive	Bi-metal	5	For wood, nail-embedded wood, non-ferrous metals, plastic and fiberglass	36-076

Portable Band Saw Blades

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

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

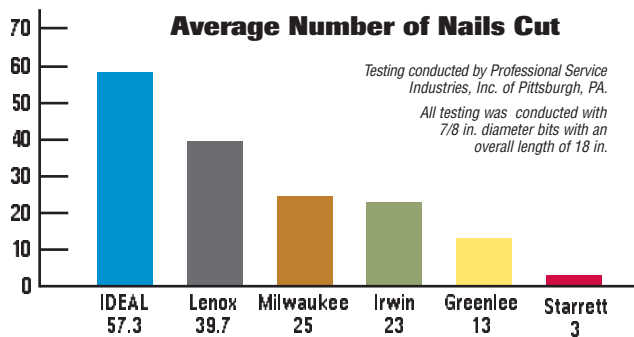


Nailbiter™ Ship Auger Bits

- Dual-Helix construction with twin cutting edges provides faster and smoother drilling action, even through nail-embedded timbers
- Full body, dual induction heat treatment ensures durability, minimizes warping and delivers long lasting performance
- Heavy-duty lead screw designed for quick gripping power, superior penetration and extra-long life
- Re-sharpenable for extended tool life



NailBiter™ Auger Testing Results



Power Ship Augers - Bit Length = 7-1/2", Twist = 5", Shank = 7/16"	Hole Diameter	Overall Length	Twist Length	Cat. No.
Description				
5/8 in. Power Ship Auger	5/8 in.	7-1/2 in.	5 in.	35-810
11/16 in. Power Ship Auger	11/16 in.	7-1/2 in.	5 in.	35-811
3/4 in. Power Ship Auger	3/4 in.	7-1/2 in.	5 in.	35-812
13/16 in. Power Ship Auger	13/16 in.	7-1/2 in.	5 in.	35-813
7/8 in. Power Ship Auger	7/8 in.	7-1/2 in.	5 in.	35-814
1 in. Power Ship Auger	1 in.	7-1/2 in.	5 in.	35-815
1-1/8 in. Power Ship Auger	1-1/8 in.	7-1/2 in.	5 in.	35-816
1-1/4 in. Power Ship Auger	1-1/4 in.	7-1/2 in.	5 in.	35-817
Power Ship Augers - Bit Length = 18", Twist = 15", Shank = 7/16"	Hole Diameter	Overall Length	Twist Length	Cat. No.
Description				
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

Mini™ Augers

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



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

RESI-MASTER™ Heavy-Duty Ship Augers



- 62° cutting angle reinforces the cutting edge and provides greater durability
- Hardened lead screw and cutting edge provide increased wear resistance and extended life
- Secondary relief angle evacuates wood chips quickly and prevents auger from jamming
- Oversized cutting head makes hole larger than body of bit for easy ejection from work piece

Power Ship Augers - Bit Length = 7-1/2", Twist = 5", Shank = 7/16"	Hole Diameter	Overall Length	Twist Length	Cat. No.
Description				
5/8 in. RESI-MASTER™ Auger	1/2 in.	7-1/2 in.	5 in.	35-892
3/4 in. RESI-MASTER™ Auger	3/4 in.	7-1/2 in.	5 in.	35-893
15/16 in. RESI-MASTER™ Auger	15/16 in.	7-1/2 in.	5 in.	35-896
7/8 in. RESI-MASTER™ Auger	7/8 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
Power Ship Augers - Bit Length = 18", Twist = 15", Shank = 7/16"	Hole Diameter	Overall Length	Twist Length	Cat. No.
Description				
5/8 in. RESI-MASTER™ Auger	5/8 in.	18 in.	15 in.	35-971
3/4 in. RESI-MASTER™ Auger	3/4 in.	18 in.	15 in.	35-972
15/16 in. RESI-MASTER™ Auger	15/16 in.	18 in.	15 in.	35-977
7/8 in. RESI-MASTER™ Auger	7/8 in.	18 in.	15 in.	35-976
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

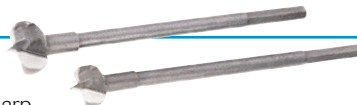
Installer Bits



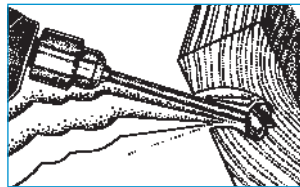
- Hole in fluted head for pulling wires through walls, ceiling and floors
- Flutes designed for quick chip removal – no clogging or binding
- Premium quality, extra-hard 52-100 carbon bearing steel

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

Wood Boring Bits

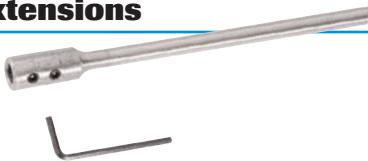


- Drills curved holes even in tight corners, eliminating sharp inside angles that hang wires
- Precision sharpened tip for fast and smooth boring
- Hex shank eliminates slippage
- Spur point centering
- Resharpenable



Description	RPM in Soft Wood	RPM in Hard Wood	Cat. No.
7/8 in. Wood Boring Bit	650-1000	600-850	90-193
1-1/8 in. Wood Boring Bit	650-1000	600-850	90-196

Auger Bit Extensions



**Dual locking screws*

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

SDS Rotary Percussion Bits



- Double fast-spiral fluting for superior dust removal, faster drill time and virtually no bind in the hole
- Heat-treating process ensures extra long life even when used on tough, extra hard and abrasive materials
- Shank for use with SDS and SDS plus rotary hammers

Description	Cat. No.
3/16 in. x 6-5/8 in. SDS Masonry Bit	90-030
1/4 in. x 6-5/8 in. SDS Masonry Bit	90-031
5/16 in. x 6-5/8 in. SDS Masonry Bit	90-032
3/8 in. x 6-5/8 in. SDS Masonry Bit	90-033
1/2 in. x 6-3/4 in. SDS Masonry Bit	90-034

Rotary Hammer Bits



- Vacuum heat-treated carbide tipped masonry bit for rotary or hammer drilling
- Tip is made of the hardest carbide to retain a sharp cutting edge for drilling masonry materials

Rotary Drills

Use electric rotary drills, hand drills or bit braces for rotary-only drilling applications in softer materials that require no hammering action. Rotary drills should be used when drilling brittle materials, which could shatter under the impact of hammer tools.

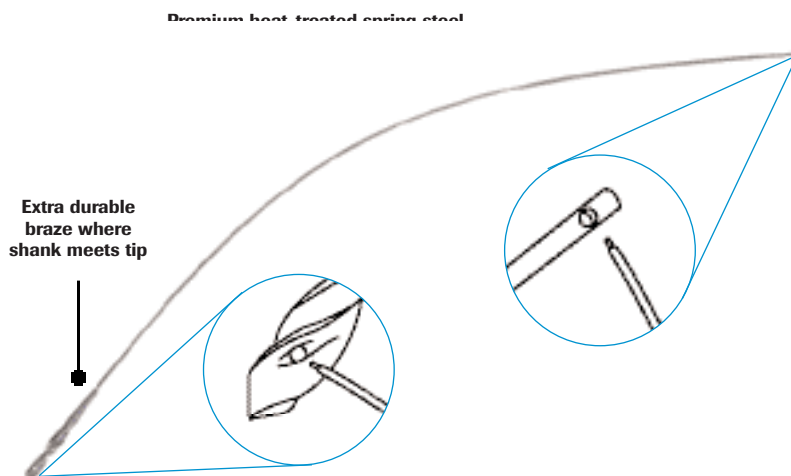
Hammer Drills

Use the Rotary Hammer Bit with electric hammer drills for drilling harder brick, limestone, marble materials or concrete with aggregates such as bluestone, granite, and quartz pebble. A hammer drill enhances the fast rotating action of the Rotary Hammer Bit with slight impact that helps to break up material being drilled.

Description	Shank	Cat. No.
3/16 in. x 4 in. Masonry Bit	1/4 in.	90-003
3/16 in. x 6 in. Masonry Bit	1/4 in.	90-001
1/4 in. x 4 in. Masonry Bit	1/4 in.	90-004
1/4 in. x 6 in. Masonry Bit	1/4 in.	90-002
5/16 in. x 4 in. Masonry Bit	1/4 in.	90-005
5/16 in. x 6 in. Masonry Bit	1/4 in.	90-006
3/8 in. x 4 in. Masonry Bit	1/4 in.	90-008
3/8 in. x 6 in. Masonry Bit	1/4 in.	90-009
1/2 in. x 6 in. Masonry Bit	3/8 in.	90-011

Application	Rotary Hammers	Rotary Drills	Hammer Drills
	Rotary Percussion Bit	Rotary Hammer Bit	Rotary Hammer Bit
Bluestone	X		X
Brick (common)	X	X	X
Brick (hard)	X		X
Cement Block	X	X	X
Cinder Block	X	X	X
Concrete (soft)	X	X	X
Concrete (hard)	X		X
Concrete (very hard)	X		
Fieldstone	X		
Flagstone		X	
Granite	X		
Limestone	X	X	X
Marble (soft & medium)	X	X	X
Marble (hard)	X		X
Plaster	X	X	X
Rock	X		X
Sandstone (soft)	X	X	X
Sandstone (hard)	X		X
Slate	X	X	X
Terra Cotta Block	X		X
Terrazzo	X	X	X
Tile, Glazed Vitreous	X		X
Tile, Non-vitrified		X	
Tile, Structural	X		X

Flexible Drill Bits



Professional drill bits drill and fish wire in one easy step. Drill and pull wire through blind areas in ceilings, walls and floors. Shanks are made from premium heat-treated spring steel for maximum flexibility while practically eliminating any retained shank bend. A three-flat non-slip grip on the shank and fish holes in both the tip and shank insure trouble-free wire pulling in either direction. Our tip design provides superior tip/shank contact, increasing the strength and durability of the braze and preventing separation when striking nails or other obstructions. Multiple styles are available for a variety of applications.

Screw Point Flexible Bits, Type B

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



Description	Shank	Cat. No.
3/8 in. x 24 in. Screw Point Flexible Bit	3/16	90-080
3/8 in. x 36 in. Screw Point Flexible Bit	3/16	90-081
3/8 in. x 54 in. Screw Point Flexible Bit	3/16	90-082
3/8 in. x 72 in. Screw Point Flexible Bit	3/16	90-083
1/2 in. x 36 in. Screw Point Flexible Bit	3/16	90-084
1/2 in. x 54 in. Screw Point Flexible Bit	3/16	90-085
1/2 in. x 72 in. Screw Point Flexible Bit	3/16	90-086
9/16 in. x 36 in. Screw Point Flexible Bit	3/16	90-087
9/16 in. x 54 in. Screw Point Flexible Bit	3/16	90-088
9/16 in. x 72 in. Screw Point Flexible Bit	3/16	90-089
3/4 in. x 36 in. Screw Point Flexible Bit	1/4	90-090
3/4 in. x 54 in. Screw Point Flexible Bit	1/4	90-091
3/4 in. x 72 in. Screw Point Flexible Bit	1/4	90-092

Serrated Combination Flexible Bits, Type C

- Multi-purpose versatile bit for clean holes
- Designed for easy to medium wood drilling and light metal
- Pressure is needed for starting and pulling the bit through the wood



Description	Shank	Cat. No.
1/4 in. x 24 in. Serrated Combination Flexible Bit	3/16	90-061
1/4 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-063
3/8 in. x 24 in. Serrated Combination Flexible Bit	3/16	90-065
3/8 in. x 36 in. Serrated Combination Flexible Bit	3/16	90-066
3/8 in. x 54 in. Serrated Combination Flexible Bit	3/16	90-067
3/8 in. x 72 in. Serrated Combination Flexible Bit	3/16	90-068
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

High-Speed Steel Flexible Bits, Type HS

- Heavy duty split point high-speed steel drill bit
- The best when encountering nail-embedded wood, steel studs and steel plates



Best for METAL

Description	Shank	Cat. No.
3/8 in. x 24 in. High-speed Steel Flexible Bit	3/16	90-154
3/8 in. x 36 in. High-speed Steel Flexible Bit	3/16	90-155
3/8 in. x 54 in. High-speed Steel Flexible Bit	3/16	90-156
3/8 in. x 72 in. High-speed Steel Flexible Bit	3/16	90-157
1/2 in. x 24 in. High-speed Steel Flexible Bit	1/4	90-158
1/2 in. x 36 in. High-speed Steel Flexible Bit	1/4	90-159
1/2 in. x 54 in. High-speed Steel Flexible Bit	1/4	90-160
1/2 in. x 72 in. High-speed Steel Flexible Bit	1/4	90-161

Masonry Flexible Bits, Type M

- Masonry drill bit
- Designed for drilling in lightweight masonry materials



Best for MASONRY

Description	Shank	Cat. No.
3/8 in. x 54 in. Masonry Flexible Bit	3/16	90-124
1/2 in. x 72 in. Masonry Flexible Bit	1/4	90-128

Flexible Bit Extensions

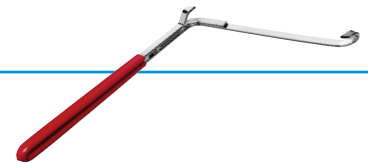
- Three lengths available for 3/16 in. and 1/4 in. shaft diameters
- Connect to chuck end of shaft to increase the length of the bit



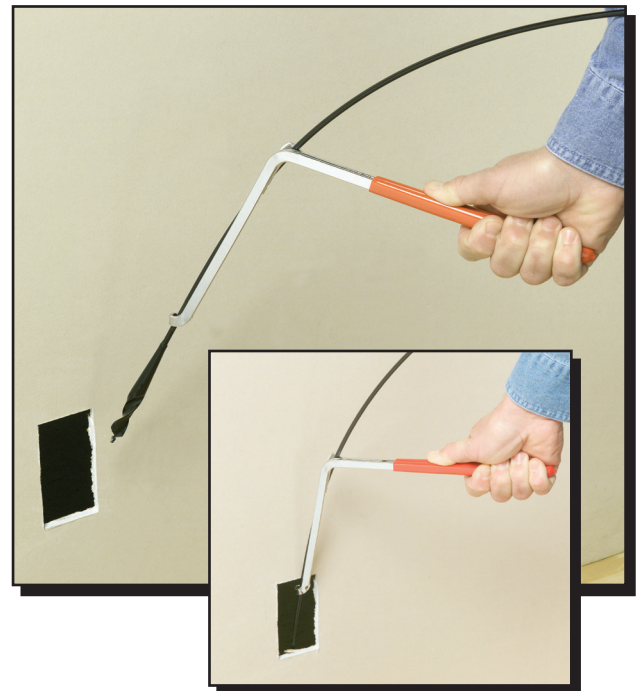
Description	Shank	Cat. No.
3/16 in. x 36 in. Flexible Bit Extension	3/16	90-170
3/16 in. x 54 in. Flexible Bit Extension	3/16	90-171
1/4 in. x 36 in. Flexible Bit Extension	1/4	90-173
1/4 in. x 54 in. Flexible Bit Extension	1/4	90-174

Flexible Bit Placement Tool

- Use as a positioning guide for the flexible drill bits
- Aids in more accurate placement of bit tips within walls
- Increases directional control during drilling



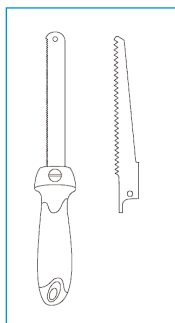
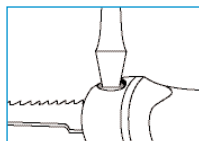
Description	Cat. No.
Flexible Bit Placement Tool	90-176



Jab Saw



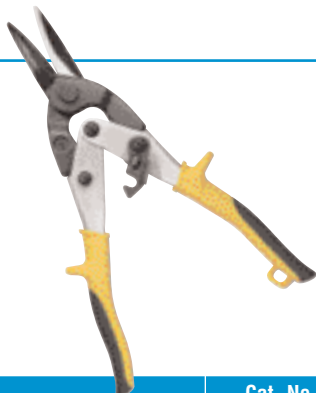
- Includes replaceable bi-metal wallboard blade
- Holds all reciprocating blades and hacksaw blades
- Ergonomic grip



Description	Cat. No.
Jab Saw	35-275
Replacement blade	36-088

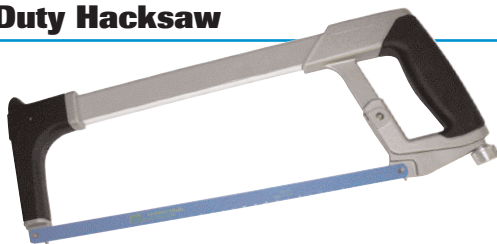
Aviation Tin Snips

- Chrome-molybdenum steel forged blades for greater strength and durability
- Serrated edges provide a stable hold when cutting
- Labor-saving design for easier cutting
- Comfortable non-slip dual durometer grips

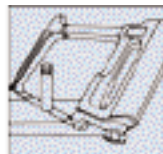


Description	Cat. No.
Straight Cut Aviation Tin Snips	35-001
Right Cut Aviation Tin Snips	35-002
Left Cut Aviation Tin Snips	35-003

Heavy-Duty Hacksaw



- Use as conventional hacksaw or as jab saw to enlarge holes
- Rugged frame provides lightweight rigidity and exceptional control
- Stores up to nine extra blades
- Blades can be adjusted to 55° angle for flush cutting and tensioned to 25,000 psi
- Includes 12 in. x 24T bi-metal blade



Description	Cat. No.
Heavy-Duty Hacksaw	35-260

Ergonomic Hacksaw



- Angled handle for easier cutting
- Blade can easily be adjusted for flush cutting
- Easy tensioning wing-nut keeps blades tight for straighter cuts
- Cushioned ergonomic grip for performance and comfort
- Includes 12 in. x 24T bi-metal blade

Description	Cat. No.
Ergonomic Hacksaw	35-261

Mini Hacksaw



- Heavy-duty die cast frame
- Non-slip rubber comfort grip
- Accepts all standard hacksaw blades

Description	Cat. No.
Mini Hacksaw	35-259

Folding Saw

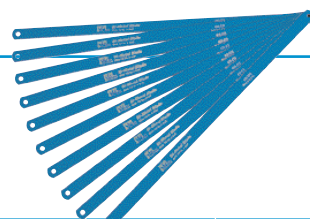


- Light-weight, heavy-duty die cast construction
- Ergonomic rubber comfort grip
- Blade safely and conveniently folds down in handle
- Accepts all standard 6" recip blades

Description	Cat. No.
Folding Saw	35-274

Hacksaw Blades

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



Description	Qty./Pack	Cat. No.
12 in. x 18T Blades	10	35-271
12 in. x 24T Blades	10	35-272
12 in. x 32T Blades	10	35-273
12 in. x 18T Blades	100	35-262
12 in. x 24T Blades	100	35-263
12 in. x 32T Blades	100	35-264

D

Wire Management

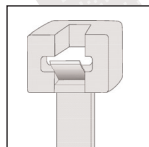




Powr-Tie™

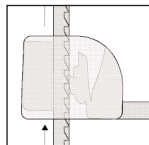
Quality Construction

- One-piece design for added strength
- Superior locking mechanism
- Exceeds industry tensile strength ratings



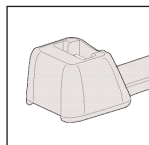
Low Insertion Force

- Tapered thin tip reduces initial friction
- Lowest insertion force with the highest tensile strength
- Reduces installation fatigue



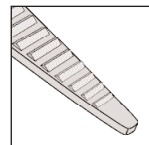
No Burrs or Sharp Edges

- Smooth corners provide added safety
- Rounded edges eliminate insulation damage



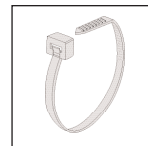
Stepped Tail Gripper

- Tapered tail grip assures positive threading
- Stepped tail allows for easier grabbing and tightening once engaged



Angled Tail

- Eases initial insertion alignment
- Lowers installation costs



Material Selection

- Natural General Purpose 6/6 Nylon
 - Suitable for most applications
 - Meets UL 94V-2 flammability ratings
 - 85°C/185°F working temperature
- UV Black Nylon 6/6
 - Suitable for most applications with continuous or extended exposure to outdoor elements
 - Weather resistant grade, able to endure ultraviolet (UV) light
 - Meets UL 94V-2 flammability ratings
 - 85°C/185°F working temperature
- Heat Stabilized Black Nylon 6/6
 - Suitable for most applications with continuous or extended exposure to high temperatures
 - Meets UL standards for electrical applications
 - Meets UL 94V-2 flammability ratings
 - 125°C/254°F working temperature

Miniature (18 lb.) Natural & UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 7/8	18 lbs.	MS3367-4-9	100	IT1M-C
Natural Nylon							1000	IT1M-M
UV Black Nylon						MS3367-4-0	100	IT1M-C0
UV Black Nylon							1000	IT1M-M0
Heat Stabilized Black Nylon	6.1 in./154mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 1-1/2	18 lbs.		100	IT1M-C30
Natural Nylon							100	IT1_5M-C
UV Black Nylon							100	IT1_5M-C0
Natural Nylon							100	IT1_5M-C30
Natural Nylon	8.1 in./206mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 2-3/16	18 lbs.		100	IT2M-C
Natural Nylon							1000	IT2M-M
UV Black Nylon							100	IT2M-C0
UV Black Nylon							1000	IT2M-M0

*IM, 1_5M & 2M Series



Intermediate (40 lb.) Natural & UV Black

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	40 lbs.	MS3367-5-9	100	IT1_5I-C
Natural Nylon							1000	IT1_5I-M
UV Black Nylon						MS3367-5-0	100	IT1_5I-C0
UV Black Nylon							1000	IT1_5I-M0
Heat Stabilized Black Nylon	8.8 in./224mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 2-3/8	40 lbs.	MS53367-5-9	100	IT2I-C
Natural Nylon							1000	IT2I-M
UV Black Nylon						MS53367-5-0	100	IT2I-C0
UV Black Nylon							1000	IT2I-M0
Heat Stabilized Black Nylon	11.5 in./292mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 3-3/8	40 lbs.		100	IT2I-C30
Natural Nylon							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	40 lbs.		100	IT4I-C
UV Black Nylon							100	IT4I-C0

*1_5 & 2I Series



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

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	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
Heat Stabilized Black Nylon							100	IT2S-C30
Natural Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16	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
Heat Stabilized Black Nylon							100	IT3S-C30
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8	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
Heat Stabilized Black Nylon							100	IT4S-C30
Natural Nylon	17.0 in./432mm	.190 in./4.82mm	.053 in./1.34mm	1/16 - 4-3/4	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 in accordance with Section 300-22(C) & (D) of the National Electrical Code.

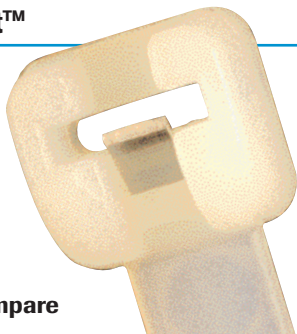
**Light Heavy-Duty, Heavy-Duty & Extra Heavy-Duty Natural, UV Black & Heat Stabilized Black**

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	8.7/220.9mm	.300 in./7.62mm	.076 in./1.93mm	2-1/16	120 lbs.		100	IT2LH-C
UV Black Nylon							100	IT2LH-C0
Heat Stabilized Black Nylon							100	IT2LH-C30
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	3/16-4-1/16	120 lbs.	MS3367-3-9	50	IT4LH-L
UV Black Nylon						MS3367-3-0	50	IT4LH-L0
Natural Nylon	17.8 in./451mm	.300 in./7.62mm	.075 in./1.90mm	3/16-5-1/4	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	120 lbs.		50	IT7LH-L
UV Black Nylon							50	IT7LH-L0
Natural Nylon	28.0 in./711mm	.300 in./7.62mm	.075 in./1.90mm	3/16-8	120 lbs.		50	IT8LH-L
UV Black Nylon							50	IT8LH-L0
Natural Nylon	25.3 in./642mm	.340 in./8.64mm	.090 in./2.29mm	3/16-7-3/16	175 lbs.	MS3367-10-9	50	IT7H-L
UV Black Nylon						MS3367-10-0	50	IT7H-L0
Natural Nylon	33.1 in./841mm	.340 in./8.64mm	.090 in./2.29mm	3/16-9-3/4	175 lbs.	MS3367-12-9	50	IT10H-L
UV Black Nylon						MS3367-12-0	50	IT10H-L0
Natural Nylon	37.1 in./942mm	.340 in./8.64mm	.090 in./2.29mm	3/16-11	175 lbs.	MS3367-13-9	50	IT11H-L
UV Black Nylon						MS3367-13-0	50	IT11H-L0
Natural Nylon	47.8 in./1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2	175 lbs.	MS3367-16-9	50	IT14H-L
Gray Nylon						MS3367-16-8	50	IT14H-L8
UV Black Nylon						MS3367-16-0	50	IT14H-L0
Natural Nylon	22.8 in./579mm	.50 in./12.7mm	.080 in./2.03mm	3/16-6	250 lbs.		100	IT6EH-C
UV Black Nylon							100	IT6EH-C0

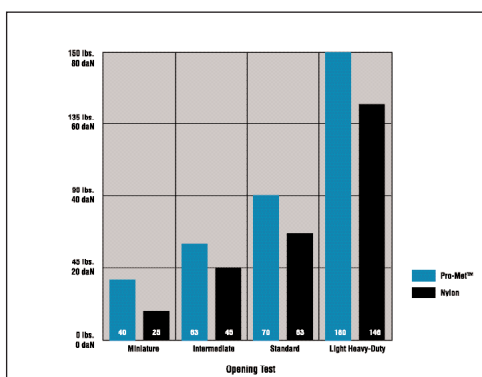
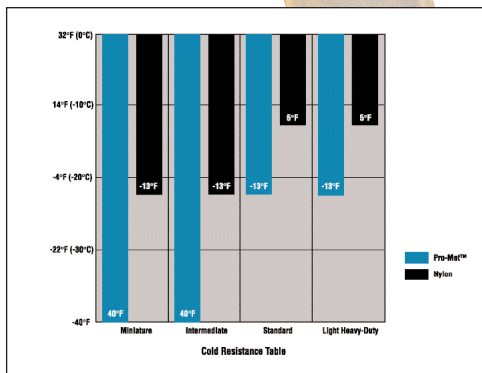
*4LH, 7H, 10H, 11H, 14H Series



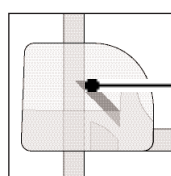
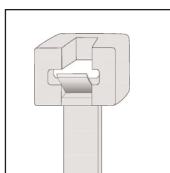
Pro-Met™



Dare to compare



- Larger stainless steel barb for more resistance
- Metal tooth is cut and set firmly in place using exclusive manufacturing processes



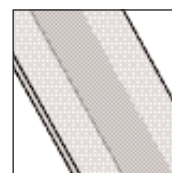
Stainless Steel

Cut angle 60°

Pitch 45°

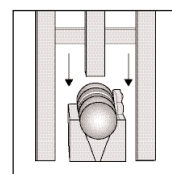
Central Rib Replaces Teeth

- Central rib design allows for maximum flexibility without losing resistance
- Central relief eliminates breaking points
- Infinitely adjustable to any bundle diameter



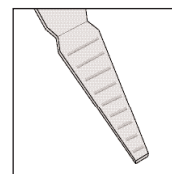
Superior Strength

- Excellent impact resistance



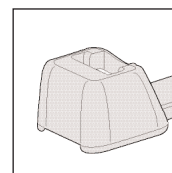
Unique Tail Design

- Straight tail gives you more tightening diameter
- Spear point simplifies installation
- Ribbing on the point allows for grabbing and tightening



Ergonomic Head

- Head design allows for quicker installation
- Smooth head protects installer hands
- Decrease your application costs



Miniature (18 lb.) Natural and UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	3.9 in./100mm	0.10 in./2.5mm	0.035 in./0.9mm	0.9 in./24mm	18 lbs./18 DaN	100	IMET1M-C
Natural Nylon						1000	IMET1M-M
UV Black Nylon						100	IMET1M-C0
UV Black Nylon						1000	IMET1M-M0
Natural Nylon	7.9 in./200mm	0.10 in./2.5mm	0.035 in./0.9mm	2.2 in./55mm	18 lbs./18 DaN	100	IMET2M-C
UV Black Nylon						100	IMET2M-C0



Wire Management

Intermediate (40 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	5.5 in./140mm	0.14 in./3.5mm	0.039 in./1.0mm	1.4 in./36mm	40 lbs./28 DaN	100	IMET1_5I-C
Natural Nylon						1000	IMET1_5I-M
UV Black Nylon						100	IMET1_5I-C0
UV Black Nylon						1000	IMET1_5I-M0
Natural Nylon	7.9 in./200mm	0.14 in./3.5mm	0.039 in./1.0mm	2.2 in./55mm	40 lbs./28 DaN	100	IMET2I-C
UV Black Nylon						100	IMET2I-C0
Natural Nylon	11 in./280mm	0.14 in./3.5mm	0.039 in./1.0mm	3.1 in./80mm	40 lbs./28 DaN	100	IMET3I-C
Natural Nylon						1000	IMET3I-M
UV Black Nylon						100	IMET3I-C0
UV Black Nylon						1000	IMET3I-M0



Standard (50 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	7.9 in./200mm	0.18 in./4.5mm	0.043 in./1.1mm	2.0 in./51mm	50 lbs./40 DaN	100	IMET2S-C
Natural Nylon						1000	IMET2S-M
UV Black Nylon						100	IMET2S-C0
UV Black Nylon						1000	IMET2S-M0
Natural Nylon	11.4 in./290mm	0.18 in./4.5mm	0.043 in./1.1mm	3.0 in./76mm	50 lbs./40 DaN	100	IMET3S-C
Natural Nylon						1000	IMET3S-M
UV Black Nylon						100	IMET3S-C0
UV Black Nylon						1000	IMET3S-M0
Natural Nylon	14.2 in./360mm	0.18 in./4.5mm	0.043 in./1.1mm	4.0 in./101mm	50 lbs./40 DaN	100	IMET4S-C
Natural Nylon						1000	IMET4S-M
UV Black Nylon						100	IMET4S-C0
UV Black Nylon						1000	IMET4S-M0



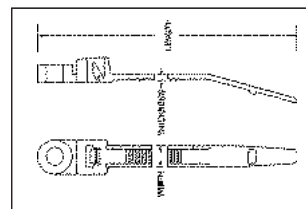
Light Heavy-Duty (120 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	14.2 in./360mm	0.30 in./7.5mm	0.059 in./1.5mm	4.0 in./101mm	120 lbs./80 DaN	50	IMET4LH-L
Natural Nylon						500	IMET4LH-D
UV Black Nylon						50	IMET4LH-L0
UV Black Nylon						500	IMET4LH-D0



Mounting Head Ties Natural and UV Black

- Use for attaching bundles to surfaces
- Allows bundling before and after mounting



Description	Length	Width	Strap Thickness	Max Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	6.0 in./152mm	.140 in./3.55mm	.048 in./1.21mm	1/16 - 1-1/4 in.	30 lbs.	No. 8	100	IT1_5IMH-C
UV Black Nylon							100	IT1_5IMH-C0
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
UV Black Nylon							1000	IT2SMH-M0
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-C0
Natural Nylon	14.5 in./370mm	.189 in./4.80mm	.060 in./1.52mm	1/16 - 4 in.	50 lbs.	No. 10	100	IT4SMH-C
UV Black Nylon							100	IT4SMH-C0
Natural Nylon	15.7 in./398mm	.300 in./7.62mm	.075 in./1.90mm	3/16 - 4-1/16 in.	120 lbs.	1/4"	100	IT4LHMH-C
UV Black Nylon							100	IT4LHMH-C0

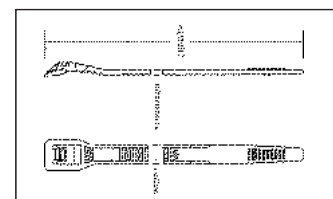
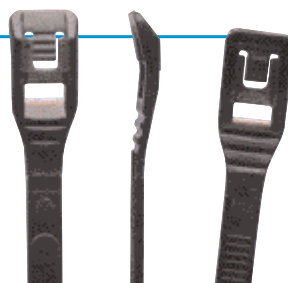
*4LH Series; **2S Series

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.



In-Line Ties Natural and UV Black

- In-line design provides a low profile to reduce required clearance
- Eliminates sharp edges to protect adjacent cables along with arms and hands



Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	7.5 in./191mm	.178 in./4.52mm	.053 in./1.35mm	3/8 - 1-3/4 in.	50 lbs.	MS3367-23-9	100	IT2SIL-C
UV Black Nylon						MS3367-23-0	100	IT2SIL-C0
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	9/16 - 3-1/2 in.	120 lbs.	MS3367-25-9	100	IT4LHIL-C
UV Black Nylon						MS3367-25-0	100	IT4LHIL-C0

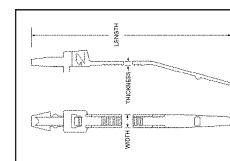
*2S Series

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.



Push Mount Ties Natural and UV Black

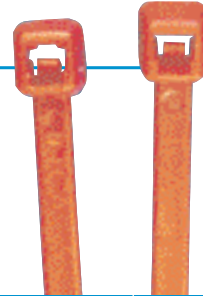
- For mounting in pre-drilled panel holes
- Use with panels 1/4 in./3.0mm thick



Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	8.0 in./203mm	.190 in./7.83mm	.055 in./1.40mm	1-7/8 in.	50 lbs.	100	IT2SPM-C
UV Black Nylon						100	IT2SPM-C0

Halar® Ties

- For use in air handling/plenum environments
- Easily recognized maroon color
- Low smoke density and excellent flammability rating, non-flammable UL 94V-0
- Superior chemical resistance
- 300°F temperature use



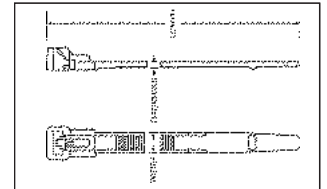
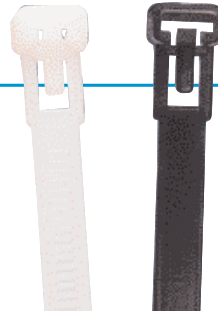
Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Maroon Halar	4.0 in./102mm	.094 in./2.4mm	.042 in./1.07mm	1/16 - 7/8 in.	18 lbs.	100	IT1M-C702
Maroon Halar	8.0 in./203mm	.178 in./4.5mm	.053 in./1.35mm	1/16 - 2 in.	50 lbs.	100	IT2S-C702
Maroon Halar	11.0 in./279mm	.178 in./4.5mm	.053 in./1.35mm	1/16 - 3 in.	50 lbs.	100	IT3S-C702

Approximate dimensions.

Halar® is a trademark of Ausimont Chemical Co.

Releasable Ties Natural and UV Black

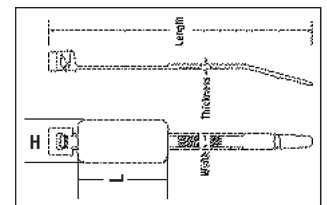
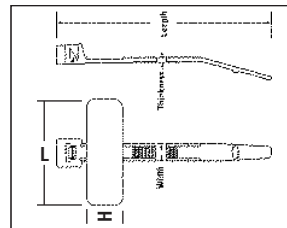
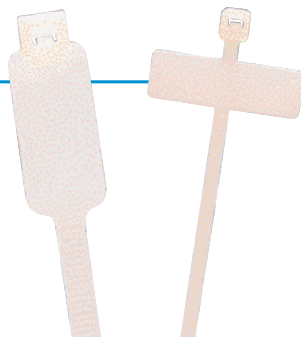
- Use where changes are expected
- Easy release and reuse



Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	5.9 in./149.8mm	.298 in./7.57mm	.050 in./1.27mm	1/8 - 1-1/4 in.	50 lbs.	100	IT1_5SRL-C
UV Black Nylon						100	IT1_5SRL-C0
Natural Nylon	7.9 in./200mm	.298 in./7.57mm	.053 in./1.35mm	1/8 - 2 in.	50 lbs.	100	IT2SRL-C
UV Black Nylon						100	IT2SRL-C0
Natural Nylon	11.9 in./301.6mm	.314 in./7.97mm	.054 in./1.37mm	1/8 - 3 in.	50 lbs.	100	IT3SRL-C
UV Black Nylon						100	IT3SRL-C0

Identification Ties

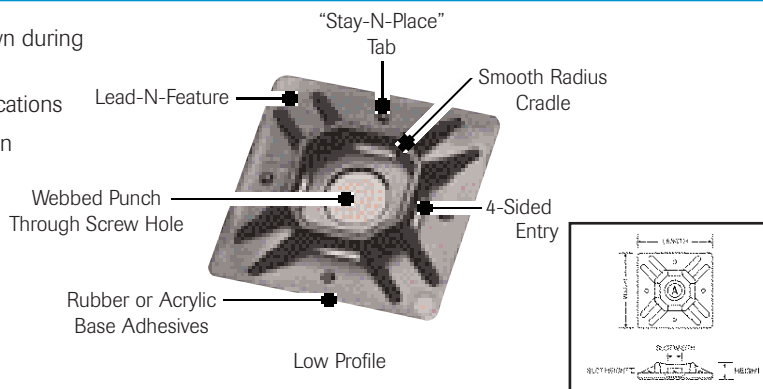
- Write-on surface
- Bundle and identify at the same time



Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Pad Size	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.	1/2 in. x 1-1/8 in.	100	IT2SID-C
Natural Nylon	14.1 in./358mm	.187 in./4.75mm	.055 in./1.40mm	3/8 - 4 in.	50 lbs.	1/2 in. x 1-1/8 in.	100	IT4SID-C

Mounting Pads

- Patented stay-in-place tab keeps cable ties from sliding down during vertical applications
- Lead-N-feature allows easy insertion for hard to reach applications
- Four-sided entry slots save time during placement orientation
- Smooth radius cradle eliminates possible damage to cable while providing stable support
- Webbed punch through screw hole allows maximum adhesive surface area, along with easy insertion of mechanical fasteners
- Low Profile is essential in confined spaces
- UL recognized, rubber adhesive positioning device

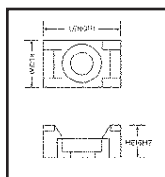


Description	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	.74 in./19mm	.19 in./4.8mm	.05 in./1.2mm	.20 in./5.1mm	No. 4	100	IT750MP-C
UV Black Nylon						100	IT750MP-C0
Natural Nylon	.99 in./25mm	.20 in./5.0mm	.06 in./1.5mm	.20 in./5.1mm	No. 6	100	IT1000MP-C
UV Black Nylon						100	IT1000MP-C0

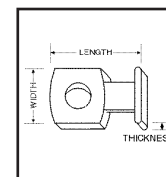
Screw Mounting Bases - Standard and Low Profile



Standard Screw Mount



Low Profile Mount



Description	Length	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Screw Mount 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
Screw Mount UV Black Nylon							100	IT1SMB-C0
Screw Mount Natural Nylon	.870 in./22mm	.640 in./16.26mm	.380 in./9.65mm	.125 in./3.18mm	.300 in./7.62mm	1/4"	100	IT2SMB-C
Screw Mount UV Black Nylon							100	IT2SMB-C0
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

Clamps

- Use to secure wires, cables, pipes, tubing, 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
UV Black Nylon						100	IT500CCL2-C0
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

IDEAL Cable Tie Catalog Numbering System

IT	2	S		C	
I = IDEAL INDUSTRIES, INC. (at beginning of Catalog Number)	Size Approximate Bundle Diameter for ties	TENSILE Strength M = Miniature (18 lbs.) I = Intermediate (40 lbs.) S = Standard (50 lbs.) LH = Light-Heavy Duty (120 lbs.) H = Heavy Duty (175 lbs.) EH = Extra-Heavy Duty (250 lbs.)	Style = Standard Tie IL = In-Line MH = Mounting PM = Push Mount RL = Releasable ID = Identification MB = Mounting Base LPMB = Low Profile Mounting Base MP = Mounting Pad CCL = Cable Clamp	Qty. Per Package L = 50 C = 100 D = 500 M = 1000	Color = Natural 0 = UV Black 8 = Gray 30 = Heat Stabilized Black 702 = Halar
Family: T = Standard One-Piece Cable Tie MET = Stainless Steel Barb Tie					

Cable-Tie Installation Tools



- 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, die-cast aluminum construction with comfortable, cushioned grips
- Scrap tail stays in tool until trigger is released

Description	Cat. No.
Economy – use w/intermediate & standard ties*	BCTT-200
Standard – use w/intermediate & standard ties	41-990
Heavy-duty – use w/standard & heavy-duty ties	41-995

*Color may vary

Cable Tie Bag



- Keep your cable ties right where you need them, eliminate loss with this convenient easy-to-use bag that clips securely onto your belt
- Includes a bag for 8 in. cable ties and a bag for 11 in. cable ties, they easily clip together or can be used separately
- Elastic cord quickly and easily cinches to keep straps securely in place

Description	Cat. No.
Cable Tie Bag	IT-BAG

Flexible Tubing

- Flexible! Cuts easily to desired length
- Splits open for neat “bundling” of wiring jobs
- Snaps shut to create a continuous protective cover



Description	Qty.	Cat. No.
3/8" Flex Tubing	10 ft.	772240
3/8" Flex Tubing	1,200 ft.	772245
1/2" Flex Tubing	1 ft.	772241
1/2" Flex Tubing	900 ft.	772244
1" Flex Tubing	5 ft.	772242
1" Flex Tubing	250 ft.	772243

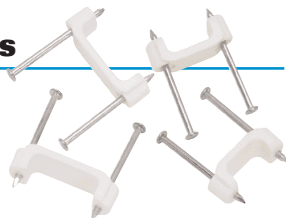
*Buchanan branded

Cable Staples

- Full line of quality insulated and non-insulated staples to fit all cabling applications
- Packaged to answer electrician's need for clean, dry, rust-free staples
- Convenient reclosable containers keep staples organized in the truck and on the job-site

Plastic Insulated Staples

- Use with wider cable such as Romex®, NM and UF
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion

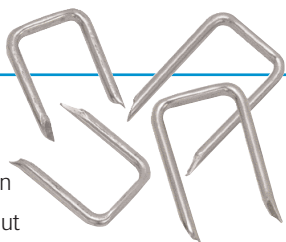


Description	Quantity/Package	Cat. No.
1/2 in. Insulated	50/Bag	BPS2-50
1/2 in. Insulated	100/Bag	BPS2-1
1/2 in. Insulated	200/Jar	BPS2-JR
1/2 in. Insulated	400/Jar	BPS2B-JR
1/2 in. Insulated	500/Bag	BPS2-5
1/2 in. Insulated	5,000/Bucket	BPS2-5M
1/2 in. Insulated	30,000/Barrel	BPS2-30K
3/4 in. Insulated	50/Bag	BPS3-50
3/4 in. Insulated	100/Bag	BPS3-1
3/4 in. Insulated	175/Jar	BPS3-JR
3/4 in. Insulated	250/Bag	BPS3-2

Romex® is a registered trademark of General Cable Co.

Carbon Steel Staples

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



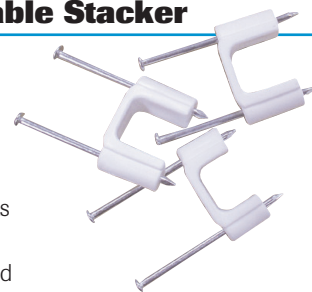
Description	Quantity/Package	Cat. No.
1/2 in. x 1 in.	100/Box	BCS1-1
1/2 in. x 1 in.	500/Jar	BCS1-JR
1/2 in. x 1 in.	500/Box	BCS1-5
1/2 in. x 1 in.	5,000/Bucket	BCS1-5M
9/16 in. x 1-1/4 in.	100/Box	BCS2-1
9/16 in. x 1-1/4 in.	400/Jar	BCS2-JR
9/16 in. x 1-1/4 in.	500/Box	BCS2-5
9/16 in. x 1-1/4 in.	5,000/Bucket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

Romex® is a registered trademark of General Cable Co.



Plastic Insulated Cable Stacker

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel construction
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion

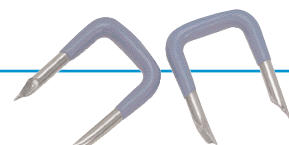


Description	Quantity/Package	Cat. No.
1/2 in. 2 Cable Stacker	50/Bag	BPS2/2-50
1/2 in. 3 Cable Stacker	50/Bag	BPS2/3-50
1/2 in. 4 Cable Stacker	50/Bag	BPS2/4-50

Romex® is a registered trademark of General Cable Co.

Insulated Staples

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel with flexible PVC insulation
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion



Description	Quantity/Package	Cat. No.
1/2 in. x 1 in.	100/Box	BICS-1
1/2 in. x 1 in.	450/Jar	BICS-JR
1/2 in. x 1 in.	500/Box	BICS-5
9/16 in. x 1-1/4 in.	100/Box	BICS2-1
9/16 in. x 1-1/4 in.	350/Jar	BICS2-JR
9/16 in. x 1-1/4 in.	500/Box	BICS2-5

Romex® is a registered trademark of General Cable Co.

Carbon Steel Service Entrance Staples

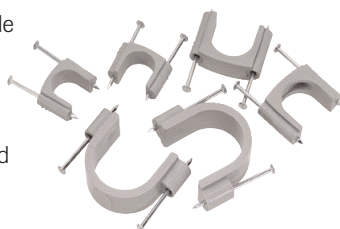
- Use with service entrance cable and conduit
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion



Description	Quantity/Package	Cat. No.
1-5/16 in. x 3/4 in.	100/Box	BMSE150-1
1-1/2 in. x 1-1/16 in.	100/Box	BMSE175-1

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/Package	Cat. No.
#6 SER & 1/2 in. EMT	50/Bag	BSER6-50
#6 & #8 SEU	50/Bag	BSEU6-50
#2 SER & 3/4 in. EMT	25/Bag	BSER2-25
#2 SEU	25/Bag	BSEU2-25
4/0 SER	5/Bag	BSER4/0-5
4/0 SEU	5/Bag	BSEU4/0-5

Coaxial Cable Straps

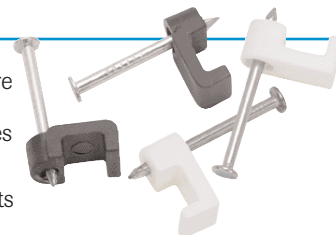
- Use with round cable such as CATV/VCR and phone cables or with plastic and metal tubing
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
1/4 in. Black	25/Clamshell	772806
1/4 in. Black	100/Clamshell	772807
1/4 in. Black	250/Jar	BPCXSB-JR
1/4 in. White	25/Clamshell	772808
1/4 in. White	100/Clamshell	772809
1/4 in. White	250/Jar	BPCXSW-JR
1/16 in. White	50/Bag	BPS4-50

Sound Straps

- Use with smaller insulated wire and cord applications such as lamps, thermostats, telephones and sound systems
- Smooth plastic saddle prevents damage to wires
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
3/16 in. White	25/Clamshell	772804
3/16 in. White	100/Clamshell	772805
3/16 in. White	250/Jar	BPLVSW-JR
3/16 in. Black	25/Clamshell	772810
3/16 in. Black	100/Clamshell	772812
3/16 in. Black	250/Jar	BPLVSB-JR

Fiber Insulated Cable Staples

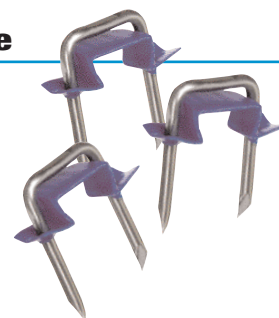
- Use with smaller wire and cord applications such as low voltage bells, thermostats, telephones and sound systems
- Insulated fiber provides enhanced strength and dielectric resistance
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion



Description	Quantity/Package	Cat. No.
Brown Fiber	40/Clamshell	772840
White Fiber	40/Clamshell	772841

Metal Insulated Staple

- Use with wider cable such as Romex®, NM and UF
- Resists rust and corrosion
- Blue plastic saddle prevents wire damage



Description	Quantity/Package	Cat. No.
1/2 in. Metal Staple w/Plastic Insulator	200/Jar	BMICS-JR

Romex® is a registered trademark of General Cable Co.

Heat Shrinkable Tubing

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" to 10" section damaged or destroyed by a trencher.
- 600V Maximum, 105°C rating
- Meets the requirements of the 2002 NEC Code 110-14(b) and UL486D



Description	Cat. No.
UF Splice Kit - 14-8 AWG	46-400
UF Stretcher Kit* - 14-8 AWG	46-410

*Stretcher kit connector is 11.5 in.

Thermo-Shrink® Al/Cu Splice Kits

- Direct burial rated, underground splice kits
- Heavy-wall heat shrinkable tubing
- Adhesive liner provides complete insulation and protection
- Simple one-piece design saves time and money
- Connector can be used for aluminum and/or copper cable



Description	Cat. No.
Underground Splice Kit – 8 to 2 AWG, 600V	46-401
Underground Splice Kit – 4 AWG to 1/0, 600V	46-402
Underground Splice Kit – 1/0 to 250 KCMIL, 600V	46-403

Thermo-Shrink® Copper Butt Splice Kits

- UL Listed
- Provides a fully-insulated butt splice
- 600V Maximum, 105°C rating



Description	Cat. No.
Butt Splice Kit – Copper 14-8 AWG	46-404
Butt Splice Kit – Copper 8-2 AWG	46-405

Thermo-Shrink® Self-Sealing UF Splice Kit

- Fully waterproof, submersible and re-enterable to make future changes or repairs
- Meets the requirements of the 2002 NEC Code 110-14 (b) and UL486D
- Accommodates 14 to 10 AWG wire range
- 600V Maximum, 105°C rating



Description	Cat. No.
Self Sealing UF Splice Kit	46-411

Thermo-Shrink® Torch

- Self-igniting trigger, starts fast and easy
- Fully adjustable regulator valve and air inlet port to achieve the ideal flame setting
- 1" wide brass burn-tip accommodates a variety of heat shrink applications
- Heavy duty, stainless steel burn tube, combined with a cast aluminum body with epoxy finish, creates a durable long lasting tool for almost any environment
- 1 - 20 threads screw directly onto 14 oz. and 16 oz. propane gas tanks



Description	Cat. No.
Heat Shrink Torch	46-420

Thermo-Shrink® Thin-Wall Heat Shrinkable Tubing

- Electrically insulates and protects in-line components, disconnect terminals and splices with its high strength and excellent resilience
- Use to bundle wires for very flexible light-duty harnesses
- Highly flame-retardant and flexible
- Resistant to common fluids and solvents
- Meets UL 224 125°C VW-1 600V, SAE-AMS-DTL-23053/5 Class 1 & 3
- Material: No PBB's, PBBO's, PBBE's, Cadmium < 5PPM; Lead < 10PPM
- 2:1 shrink ratio
- Minimum shrink temperature: 70°C
- Minimum fully recovery temperature: 100°C
- Operating temperature: -55°C to +135°C



Heat Shrink

Technical Data		
Property	Test Method	Typical Data
Tensile strength	ASTM D 638	14MPa
Elongation at break	ASTM D 638	600%
Elongation after aging at 175°C for 168 hours	ASTM D 638	350%
Flammability	UL 224 VW-1/ SAE-AMS-DTL-23053/5	Pass
Heat shock (250°C/4 hours)	ASTM D 2671	No cracking
Cold bend test (-55°C/4 hours)	ASTM D 2671	No cracking
Dielectric strength	ASTM D 150	20KV/mm
Volume resistance	ASTM D 876	10 ¹⁴ Ω.cm
Copper corrosion	UL 224	Pass
Water absorption	ASTM D 570	0.15%
Chemical resistance	SAE-AMS-DTL-23053/5	Pass
Longitudinal shrinkage	UL 224	0±5%
Eccentricity	UL 224	30%

Normal Size (Inches)	Expanded I.D. (Min.)	Nominal Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Range*	Length	Cat. No.
3/64	0.063"/1.6mm	0.024"/0.6mm	0.013"/0.33mm	22-18 AWG	4 ft.	46-600
1/16	0.079"/2.0mm	0.031"/0.8mm	0.014"/0.36mm	16 AWG	4 ft.	46-601
3/32	0.122"/3.1mm	0.047"/1.2mm	0.017"/0.44mm	14-12 AWG	4 ft.	46-602
1/8	0.146"/3.7mm	0.063"/1.6mm	0.017"/0.44mm	24-20 AWG	6 in. 2 ft. 4 ft. 1,000 ft.	46-310 46-311 46-603 46-312
3/16	0.205"/5.2mm	0.094"/2.4mm	0.020"/0.50mm	20-14 AWG	6 in. 2 ft. 4 ft. 1,000 ft.	46-313 46-314 46-604 46-315
1/4	0.268"/6.8mm	0.126"/3.2mm	0.022"/0.56mm	14-8 AWG	6 in. 2 ft. 4 ft. 500 ft.	46-316 46-317 46-605 46-318
5/16	0.346"/8.8mm	0.157"/4.0mm	0.022"/0.56 mm	10-6 AWG	4 ft.	46-606
3/8	0.421"/10.7mm	0.185"/4.7mm	0.022"/0.56mm	8-4 AWG	6 in. 2 ft. 4 ft. 200 ft.	46-319 46-320 46-607 46-321
1/2	0.539"/13.7mm	0.252"/6.4mm	0.026"/0.65mm	4-1 AWG	6 in. 2 ft. 4 ft. 200 ft.	46-322 46-323 46-608 46-324
3/4	0.807"/20.5mm	0.374"/9.5mm	0.027"/0.69mm	2-250 MCM	6 in. 2 ft. 4 ft. 200 ft.	46-325 46-326 46-609 46-327
1	1.043"/26.5mm	0.500"/12.7mm	0.031"/0.80mm	2/0-500 MCM	6 in. 2 ft. 4 ft. 100 ft.	46-328 46-329 46-610 46-330

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



Thermo-Shrink® Heavy-Wall Heat Shrinkable Tubing

- TS-46 irradiated cross-linked polyolefin with 3:1 standard shrink ratio
- Adhesive liner provides complete insulation and protection to electrical splices in above-grade, underground or underwater applications
- Maximum flame retardancy
- Meets UL 486D, CSA C22.2 No. 198.2, ANSI C119.1, Western Underground Guides Nos. 2.4, 2.5, MIL-DTL-23053/15, IEEE 383 Vertical Flame Test, ANSI C37.20.2, ICEA S-19-8 and NEMA insulation thickness requirements
- Continuous operating temperature from -55°C to 110°C
- Rated for 600V, 90°C continuous use
- Shrink temperature of 120°C

Model	Expanded I.D. (Min.)	Recovered I.D. (Max.)	Nominal Recovered Wall Thickness	Cable Range*	Length (Inches)	Cat. No.
TS-46-400	.400	.150	.060	12-6 AWG	6 9 48	46-343 46-344 46-346
TS-46-750	.750	.240	.090	8-1/0 AWG	6 9 48	46-347 46-348 46-350
TS-46-1100	1.100	.350	.120	2-4/0 AWG	6 9 48	46-351 46-352 46-354
TS-46-1500	1.500	.470	.160	3/0 AWG-400 KCMIL	9 12 48	46-356 46-357 46-358
TS-46-2000	2.000	.630	.160	250-750 KCMIL	9 18 48	46-369 46-371 46-372

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

Properties	Heavy Wall
Shrink Temperatures	120°C to 250°C (200°C recommended)
Continuous Operating Temperature	-55°C to 110°C
Tensile Strength (PSI)	2,100 PSI min.
Ultimate Elongation	600% min.
Secant Modulus @ 2% Strain	25,000 PSI max.
Specific Gravity	1.20 max.
Heat Aging, 168 hrs. @ 175°C Tensile Strength Elongation	500%
Heat Shock, 4 hrs. @ 225°C	No cracks, flowing or dripping
Flammability	Self-extinguishing
Low Temperature Brittle Point	-55°C
Volume Resistivity	10 ¹³ ohm-cm min.
Dielectric Strength	500V/mil (20kV/min.)
Corrosive Effect	Non-corrosive
Solvent Resistance 24 hrs. Immersion per MIL-DTL-23053	Good to excellent
Water Absorption	0.5%
Fungus Resistance	No growth
Longitudinal Change, 3 min.	+1%/-10%

All values are typical performance data and are not to be used as design data.



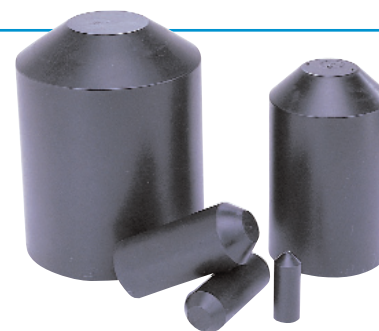
Thermo-Shrink® Medium-Wall Heat Shrinkable End Caps

- Creates a watertight seal to protect the ends of power and control cords
- Effectively offers protection against oxidation, ozone, UV radiation, etc.
- Coated with hot melt adhesive to ensure environment seal
- Fits easily over end of cable
- Protect power cables up to 1000V and telecommunication cable
- Recommended for both open air and underground power distribution cables with PVC, lead or XLPE sheaths
- Thermally stabilized cross-linked polyolefin, coated with specially designed hot melt adhesive

Technical Data		
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 aging	150°C, 168 hrs.	>300%
Dielectric Strength	IEC 243	>15KV/mm
Volume Resistance	IEC 93	10 ¹⁴ Ω.cm

Expanded I.D. (Min.)	Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Dia. Range*	Length (Inches)	Cat. No.
0.55"/14mm	0.18"/4.5mm	0.079"/2.0mm	0.20"/5mm - 0.47"/12mm	1.77"/45mm	46-381
0.98"/25mm	0.31"/8mm	0.091"/2.3mm	0.39"/10mm - 0.71"/18mm	2.76"/70mm	46-382
1.38"/35mm	0.59"/15mm	0.118"/3.0mm	0.67"/17mm - 1.18"/30mm	3.35"/85mm	46-383
2.95"/75mm	1.38"/35mm	0.138"/3.5mm	1.77"/45mm - 2.76"/70mm	5.12"/130mm	46-384
4.72"/120mm	2.36"/60mm	0.157"/4.0mm	2.95"/75mm - 4.33"/110mm	6.10"/155mm	46-387

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



Thermo-Shrink® Heat Shrink Kit

Kit includes:

- Eleven sizes of thin-wall heat shrinkable tubing disks (3/64 in. – 1 in.)
- Small deflector
- Premium T®-Cutter Wire Cutter



Description	Cat. No.
Kit includes: 45-223, 46-203, 46-941, & 46-400 through 46-610	46-007

Heat Elite Heat Gun

- Temperature range – 930°F (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
- UL and CUL Listing



Description	Cat. No.
Heat Elite	46-202
Heat Elite, 230V	46-205

Heat Gun Accessories



Description	Cat. No.
Small Deflector, 1-1/4 in. diameter (For use with all Heat Elite Heat Guns)	46-941
Reduction Adapter (For use with 46-203 and 46-204)	46-950
Glass Protection Adapter (For use with all Heat Elite Heat Guns)	46-951
Welding Adapter (For use with 46-203 and 46-204)	46-952
Solder Reflector Adapter (For use with 46-204)	46-953
Wide-shot Adapter (For use with all Heat Elite Heat Guns)	46-954
Overlap Adapter (For use with 46-203 and 46-204)	46-955
Pressure Roller (For use with 46-204)	46-956

Heat Elite Pro Heat Gun

- Temperature range – 180°F - 1020°F (100 - 550°C)
- Two-step switch for heat and air flow adjustments
- Double-insulated power cord
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- Potentiometer for infinitely temperature adjustment
- UL and CUL Listing



Description	Cat. No.
Heat Elite Pro	46-203
Heat Elite Pro, 230V	46-206

Heat Elite Plus Heat Gun

- Temperature range – 180°F - 1200°F (80 - 650°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
- UL and CUL Listing



Description	Cat. No.
Heat Elite Plus LCD	46-204
Heat Elite Plus LCD, 230V	46-207

Wire Marker Booklets

- Convenient pocket-size booklets
- Plastic-impregnated cloth construction for long-lasting durability
- Resists abrasion, moisture, dirt and oil
- Perforated 1/4 in. x 1-1/2 in. markers can be separated into half-length sizes
- Non-smear black legend ensures high visibility
- Self-sticking on wire and cable
- For applications above or below ground

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C)
Adhesion: 45 oz./in. width ultimate



Legend Assortments*

Legend	Quantity	Cat. No.
0-9	45 Markers each	44-101
A-Z 0-15 +, -, /	10 Markers each	44-102
1-45	10 Markers each	44-103
46-90	10 Markers each	44-104
1, 2, 3	150 Markers each	44-105
A, B, C	150 Markers each	44-106
T1, T2, T3	150 Markers each	44-107
L1, L2, L3	150 Markers each	44-108
1-15 16-90 A-Z +, -, /, 0	6 Markers each 4 Markers each 2 Markers each 2 Markers each	44-109
1, 2, 3 A, B, C T1, T2, T3 L1, L2, L3	45 Markers each 45 Markers each 30 Markers each 30 Markers each	44-110
+, -, AC, DC POS, NEG, GND NEUT SPARE, BLANK	45 Markers each 33 Markers each 27 Markers each 21 Markers each	44-111

*Ten pages per booklet with each page bearing the legend assortment indicated. All booklets (except 44-111) contain 450 wire markers and 450 terminal markers. Booklet 44-111 includes 348 wire markers and 348 terminal markers.

Solid Letters and Numbers*

Legend	Cat. No.	Legend	Cat. No.	Legend	Cat. No.
A	44-112	M	44-124	Y	44-136
B	44-113	N	44-125	Z	44-137
C	44-114	O	44-126	0	44-138
D	44-115	P	44-127	1	44-139
E	44-116	Q	44-128	2	44-140
F	44-117	R	44-129	3	44-141
G	44-118	S	44-130	4	44-142
H	44-119	T	44-131	5	44-143
I	44-120	U	44-132	6	44-144
J	44-121	V	44-133	7	44-145
K	44-122	W	44-134	8	44-146
L	44-123	X	44-135	9	44-147

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

Load Centers

- 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 Booklets*

- Use for developing personal identification systems
- Surface accepts pen, pencil or rubber stamp



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

*Write-on area for 2-1/2 in. markers is 3/4 in. x 1 in. Write-on area for 5 in. markers is 1 in. x 1 in. Adhesion: .25 oz./in. width ultimate

Wire Marker Cards

- Use for positive identification and keying of wires, terminal blocks, etc.
- Convenient pocket-size cards
- Bold, easy-to-read black characters
- Self-sticking on wire and cable
- Polyester film over laminate/cloth construction for long-term durability
- Resists abrasion, moisture, dirt and oil
- Individual markers measure approximately 1/4 in. x 1-1/2 in.

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C); Adhesion: 45 oz./in. width ultimate

Solid Numbers and Letters*

Legend	Cat. No.	Legend	Cat. No.
0	43-000	I	43-609
1	43-001	J	43-610
2	43-002	K	43-611
3	43-003	L	43-612
4	43-004	M	43-613
5	43-005	N	43-614
6	43-006	O	43-615
7	43-007	P	43-616
8	43-008	Q	43-617
9	43-009	R	43-618
A	43-601	S	43-619
B	43-602	T	43-620
C	43-603	U	43-621
D	43-604	V	43-622
E	43-605	W	43-623
F	43-606	X	43-624
G	43-607	Y	43-625
H	43-608	Z	43-626

* 36 Markers per card

Consecutive Numbers and Letters

Legend	Markers per legend	Markers per card	Cat. No.
0-9 (Repeated)	3	30	43-953
1-33	1	33	43-875
34-66	1	33	43-876
67-99	1	33	43-877
100-124	1	25	43-878
125-149	1	25	43-879
150-174	1	25	43-880
175-199	1	25	43-881
200-224	1	25	43-882
225-249	1	25	43-883
A-Z	1	26	43-960

Wire Marker Dispensers



- Convenient pocket-size case (3 in. x 6 in.) holds 10 wire marker rolls
- Dispenser tab holds tapes firmly in place — allows removal of proper tape length without waste
- Flip top for easy access and refill
- Built-in hook for hanging from belt or tool pouch
- High-quality adhesive and 3 mil. thickness provide long-lasting, low-profile application
- Each plastic reel holds 8 ft. of polyester tape

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C)
Adhesion: 25 oz./in. width ultimate

Description	Cat. No.
Dispenser w/0 through 9 legend rolls	42-301
Dispenser only	42-303

Description/Legend	Cat. No.
Refill pack with 1 each of 0-9 legend rolls	42-399

Write-On Marker Cards

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



Marker Size (Inches)	Markers per card	Cat. No.
1 x 1-1/2	9	44-752
5/8 x 1-1/2	14	44-753

Marking Pens

- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates
- Color-coded in red or black



Description	Cat. No.
Marking Pen w/black ink	41-697
Marking Pen w/red ink	41-698

Voltage and Conduit Markers

Large:

1 marker per card
2-1/4 in. x 9 in. each w/1-3/4 in. type

440 VOLTS

Medium:

4 markers per card
1-1/8 in. x 4-1/2 in. each w/3/4 in. type

240 VOLTS

Small:

18 markers per card
2-1/4 in. x 1/2 in. each w/5/16 in. type



- 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 provides 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

Legend	Large Cat. No.	Medium Cat. No.	Small Cat. No.
120/208V	44-295	44-296	44-297
277/480V	44-298	44-299	44-300
110V	N/A	N/A	44-401
120V	N/A	44-353	44-403
208V	N/A	44-355	44-405
220V	N/A	N/A	44-406
230V	N/A	N/A	44-407
240V	44-308	44-358	44-408
277V	44-310	44-360	44-410
380V	44-311	N/A	N/A
440V	44-312	N/A	N/A
460V	44-313	N/A	N/A
480V	44-314	44-364	44-414
600V	44-317	N/A	N/A
2,400V	44-321	N/A	N/A
4,160V	44-322	N/A	N/A
13,800V	44-328	N/A	N/A
DANGER	44-289	N/A	N/A
HIGH VOLTAGE	44-292	N/A	N/A
SINGLE PHASE	44-340	N/A	N/A
THREE PHASE	44-342	N/A	N/A

Flash Protection Labels and Signs

National Electric Code 110.16 Flash Protection: *Switchboards, panel boards, industrial control panels, and motor control centers*, in other than dwelling occupancies, that are likely to require examination, adjustment, servicing or maintenance while energized, shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing or maintenance of the equipment.

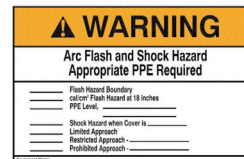
Required Labels – 44-892/44-893



Arc Flash Labels 44-894/44-895



Recommended Signs – 44-896/44-897



Description	Type	Size	Qty./Bag	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	5 in. x 7 in.	5	44-893
NEC Arc Flash, Danger	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
NEC Arc Flash, Warning	Fiberglass	10 in. x 14 in.	1	44-897

Detectable Underground Tapes

- Solid aluminum foil core tapes for protection, location and identification of underground utility installations
- Meets or exceeds industry standards including the American Public Works Association (APWA) color code
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink



Property	Method	Value
Thickness	ASTMD2103	5.0 Mils
Elongation	ASTMD882-75B	80%
Composition	IDEAL Specs.	Bottom layer virgin PE Top layer virgin PET Foil industry standard
Tensile Strength	ASTMD882	35 lbs./in. (15,000 PSI)

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

Non-Detectable Underground Tapes

- For protection, location and identification of underground utility installations
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink



Property	Method	Value
Thickness	ASTMD2103	4.0 Mils
Elongation	ASTMD882-75B	500%
Composition	IDEAL Specs.	100% virgin LDPE
Tensile Strength	ASTMD882	2,750 PSI

Recommended Burial Depth

3 in. Tape – 4 in. to 6 in.

6 in. Tape – less than 12 in.

Legend	Color	Size	Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-101
Caution Buried Electric Line Below	Red	3 in. x 250 ft.	42-131
Caution Buried Electric Line Below	Yellow	3 in. x 1,000 ft.	42-102
Caution Buried Telephone Line Below	Orange	3 in. x 1,000 ft.	42-103
Caution Buried Fiber Optic Line Below	Orange	3 in. x 1,000 ft.	42-104
Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-151
Caution Buried Electric Line Below	Yellow	6 in. x 1,000 ft.	42-152

Barricade Tapes



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

Property	Method	Value
Elongation	ASTM D88-75B	≥ 400%
Composition	IDEAL Specs.	100% virgin LDPE
Tensile Strength	ASTM D882	2,350 PSI TD 1,893 PSI MD

Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-001
Caution Do Not Enter	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-002
Caution High Voltage	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-003
Danger	Red	3 in. x 1,000 ft.	4.0 Mils	42-051
Danger High Voltage 277V/480V Keep Out	Red	3 in. x 1,000 ft.	4.0 Mils	42-052

Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 250 ft.	2.0 Mils	42-031
Caution	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-011
Caution Do Not Enter	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-012
Danger	Red	3 in. x 1,000 ft.	2.0 Mils	42-015

Basic Lockout/Tagout Kit



- A great selection of the most popular lockout/tagout devices
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Basic Lockout/Tagout Kit		44-970
Kit 44-970 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal 277V Breaker Lockout/Single Pole	1	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
3/4 in. Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	5	44-833
Universal Multi-Pole Breaker Lockout	1	44-783
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

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



Description		Cat. No.
Basic Plus Lockout/Tagout Kit		44-979
Kit 44-979 Includes all 44-970 PLUS:	Qty.	Cat. No.
Gate Valve Lockout	1	44-824
Ball Valve Lockout	1	44-820

Starter Lockout/Tagout Kit



- A starter selection of the lockout/tagout devices every electrician/maintenance person needs
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Starter Lockout/Tagout Kit		44-973
Kit 44-973 Includes:	Qty.	Cat. No.
Universal 277V Breaker/Single-Pole Lockout	1	44-809
Universal Multi-Pole Lockout	1	44-783
3/4 in. Shackle Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	2	44-833
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

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



- Easy to carry, zippered pouch holds a worker's personal padlocks and other small devices

Description		Cat. No.
Personal Lockout Pouch Kit		44-969
Kit 44-969 Includes:	Qty.	Cat. No.
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags	12	44-833*
Red Safety Padlocks - Keyed Alike	3	44-916**
Personal Lockout Pouch	1	

*Masterlock equivalent.

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

1-800-435-0705 for Customer Service

Standard Lockout/Tagout Kit



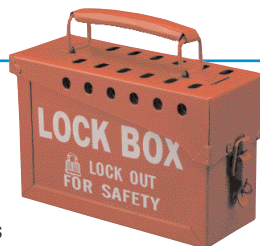
- Excellent selection of lockout/tagout devices, tags and locks for maintenance workers or contractors
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Standard Lockout/Tagout Kit		44-971
Kit 44-971 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Universal 277V Breaker Lockout/Single Pole	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
2 in. Shackle Red Padlocks	2	44-906
1 in. Safety Lockout Hasps	2	44-800
Lockout Tags – Do Not Operate	5	44-830
Lockout Tags – Do Not Operate (striped)	5	44-833
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	2	44-783
Zipper Pouch	1	IA-3240

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

Group Lock Box

- Helps ensure maximum security for complex work team situations
- Allows up to 13 individuals to personally lock the closed box
- Heavy-duty steel construction resists unauthorized entry and job-site abuse
- Compact 8-3/4 in. x 3-1/2 in. x 6 in. design



Description	Cat. No.
Group Lock Box	44-804

Lockout/Tagout Large Mouth Bag

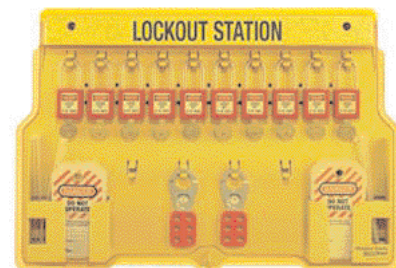
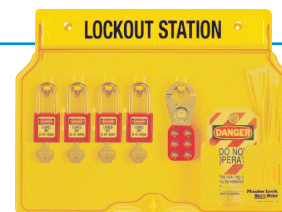
- Ideal for both storage and portability of your lockout/tagout needs
- Top opens completely for easy access and re-inforced to hold itself open
- Durable multi-ply construction with removable shoulder strap



Description	Cat. No.
Lockout/Tagout Embroidered Bag - 16 in. long	44-980

Lock Stations

- Integrated, one-piece molded construction eliminates loose parts
- Resilient polycarbonate material provides twice the heat resistance and quadruple the impact strength of typical stations
- Reinforced snap-lock clips provide easy padlock and hasp storage and removal
- Exclusive translucent cover protects contents
 - Lockable to prevent loss of valuable safety lockout padlocks. Recommend using a combination lock for simple access control
 - Innovative hinge holds cover open for easy product selection



Description	Cat. No.
Four-Lock Station (board only)	44-777
Four-Lock Station Kit includes four red safety Padlocks (44-916), 12 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-778
Ten-Lock Station (board only)	44-805
Ten-Lock Station Kit includes ten red safety Padlocks (44-916), 24 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-806

Plant Facility Lockout/Tagout Kit



- Ideal for plant facility personnel to keep all lockout/tagout devices in one convenient place
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Plant Facility Lockout/Tagout Kit		44-972
Kit 44-972 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	5	44-810
Universal 277V Breaker/Single Pole Lockout	3	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	2	44-789
110V Plug Lockout	1	44-818
1 in. Safety Lockout Hasps	3	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	3	44-783
Tool Box*	1	IA-3241

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

*Tool box color may vary.

Industrial Lockout/Tagout Kit



- An industrial selection of lockout/tagout devices
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Industrial Lockout/Tagout Kit		44-974
Kit 44-974 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Universal 277V Breaker/Single Pole Lockout	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
Ball Valve Lockout	1	44-820
1 in. Safety Lockout Hasp	2	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Red Lockout Padlocks	4	44-916
Universal Multi-Pole Breaker Lockout	2	44-783
Tool Box*	1	IA-3241

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

*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

Description		Cat. No.
Industrial Lockout/Tagout Station – 16" H x 14" W x 6" D		44-975
Kit 44-975 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Cleat for Universal Single-Pole Lockout	2	44-785
Universal Multi-Pole Breaker Lockout	2	44-783
480/600V Breaker Lockout	1	44-807
Cleat for 480/600V Breaker Lockout	1	44-786
Wall Switch Lockout	1	44-789
1 in. Safety Lockout Hasp	3	44-800
Red Safety Padlocks	4	44-916
100V Small Plug Lockout	1	44-818
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate	10	44-833
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
Cabinet w/two shelves	1	IA-4989

Description	Qty.	Cat. No.
Extra shelf	1	IA-4990

Machine Lockout/Tagout Station

- Conveniently mounts on wall, machinery or table top
- Yellow acrylic station helps maintain a focal point for storing your plug lockout between usage applications



Description	Cat. No.	
Machine Lockout/Tagout Station – 8-1/2" H x 8-1/2" W x 4" D	44-976	
Kit 44-976 Includes:	Qty.	Cat. No.
Red Safety Padlock	1	44-916
220/550V Plug Lockout	1	44-819
Lockout Tag – Do Not Operate	2	44-849
Machine Lockout Tagout Board only	1	IA-4991

Circuit Breaker Lockout/Tagout Station

- Polystyrene board is designed to be mounted on or near electrical breaker boxes for instant, easy access
- Comply with article 430.102B of the 2002 NEC



Description	Cat. No.	
Circuit Breaker Lockout/Tagout Station – 8" H x 6-1/4" W x 2-3/4" D	44-977	
Kit 44-977 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Universal Multi-Pole Breaker Lockout	2	44-783
Lockout Tag – Do Not Operate	5	44-849
Red Safety Padlock	1	44-916
Circuit Breaker Lockout/Tagout only	1	IA-4992

Micro Lockout Station

- Compact design can be mounted on or close by your lockout job
- Holds just the necessary equipment to do a specific job/function



Description	Cat. No.	
Micro Lockout Station - 8" H x 6-1/4" W x 2-3/4" D	44-978	
Kit 44-978 Includes:	Qty.	Cat. No.
1 in. Safety Lockout Hasp	1	44-800
Red Safety Padlock	1	44-916
Lockout Tags – Do Not Operate	2	44-849
Micro Lockout/Tagout Board only	1	IA-4993

Lockout/Tagout Training Programs and Compliance Manuals

Lockout/Tagout Video Training Program for Employee Safety and OSHA Compliance.

- 10-minute video effectively conveys the importance of Lockout/Tagout in the workplace.
- Demonstrates the seven steps to properly apply and five steps to re-energize from Lockout/Tagout
- Provides instructions for maintaining Lockout/Tagout during shift changes
- Shows how to apply, remove and maintain lockout devices
- Also suitable for employee-refresher training sessions
- Includes video, ten Lockout/Tagout Procedure Employee Reference Cards, instructor's guide and employee quiz
- Additional Employee Reference Cards also available (44-954)

Compliance Manual to assist your facility in complying with Federal Lockout/Tagout Regulations

- 1 – Reviews the OSHA Standard in understandable, everyday language
- 2 – Provides a step-by-step program to help you develop your "Lockout/Tagout" Compliance Program
- 3 – Outlines the type of information required for employee training

The Real, Real Life Lockout/Tagout Training Video

- 1 – Information you and your employees need to assist you in complying with OSHA's Lockout/Tagout Standards presented in an easy to understand and entertaining format
- 2 – This video comes in a plastic storage case and includes a leaders guide, training handbook with quiz, and wallet card reminder of the six steps to "Lock It and Tag It"



Description	Cat. No.
Lockout/Tagout Video Training Program	44-942
Lockout/Tagout Video Training Program Reference Cards	44-954
Lockout/Tagout Compliance Manual	44-940
Electrical Safety Related Work Practices OSHA 1910.331 thru 1910.335 & 1910.339 (129 page manual)	44-963
Real, Real Life Lockout/Tagout Training Video	44-941
Real, Real Life Lockout/Tagout Handbooks, 10/pack	44-953

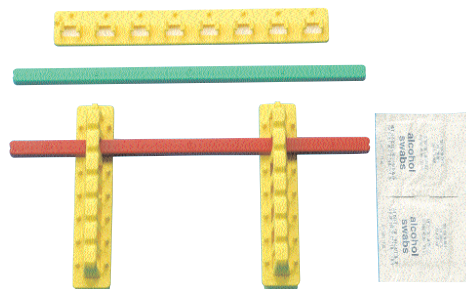
Oversized Circuit Breaker Lockout System

To comply with:

"The provisions for locking or adding a lock to the disconnecting means shall be permanently installed on or at the switch or circuit breaker used as the disconnecting means."

Article 430.102(B) Motor 2002 NEC.

- 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



Large Breaker Lockout

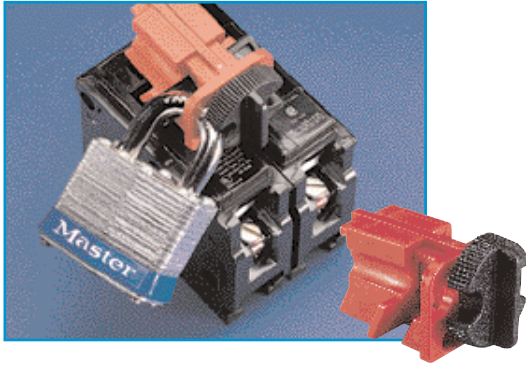
- Designed to lockout large 480/600V breaker switches up to 2-1/2 in. wide and 7/8 in. thick
- Easy to install – no tools required



Description	Qty.	Cat. No.
Oversized Circuit Breaker System – 480-600 Volt	1	44-822

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

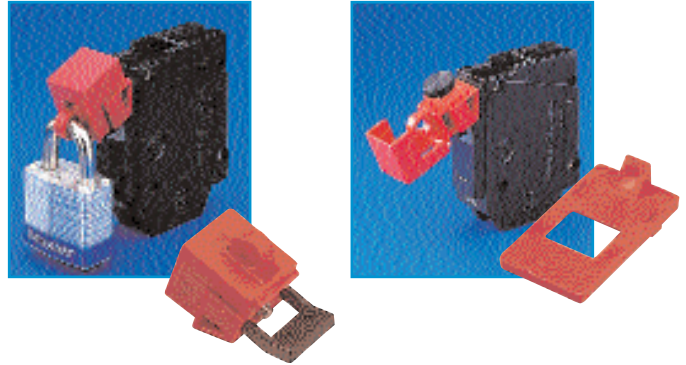
Multi-Pole Breaker Lockout



- 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
- Please see breaker guide for your application

Description	Qty.	Cat. No.
Multi-Pole Breaker Lockout	1	44-783

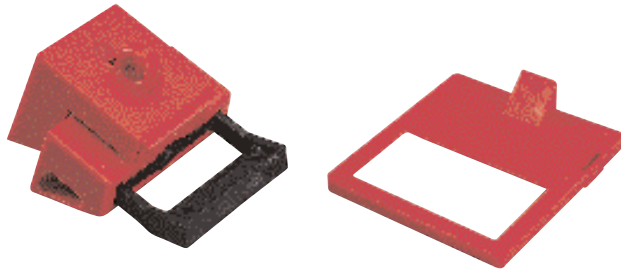
Single-Pole Breaker Lockout



- Unique screw clamp design works well with most single-pole breakers
- Snap on cleat accessory securely locks out long sliding switch throws with large angular rotation commonly found on some Westinghouse, ITE, Square D and Federal Pacific breakers
- Please see breaker guide for your application

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

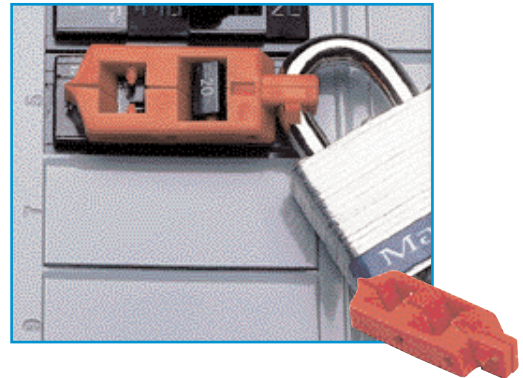
Single-Throw/Multi-Pole Breaker Lockout



- 480/600V lockout device designed primarily for Square D single-throw/multi-pole circuit breaker switches
- Snap-on cleat accessory securely locks out long sliding switch throws with large angular rotation commonly found on some Westinghouse, ITE, Square D and Federal Pacific breakers
- Please see breaker guide for your application

Description	Qty.	Cat. No.
Single-Throw/Multi-Pole Breaker Lockout	1	44-807
Single-Throw/Multi-Pole Breaker Lockout	50	44-1807
Cleat for Single-Throw/Multi-Pole Lockout	1	44-786

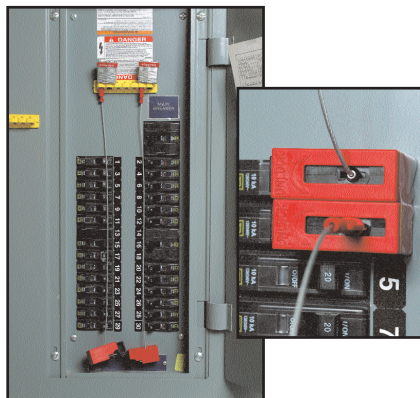
Hinged Single-Pole Breaker Lockout



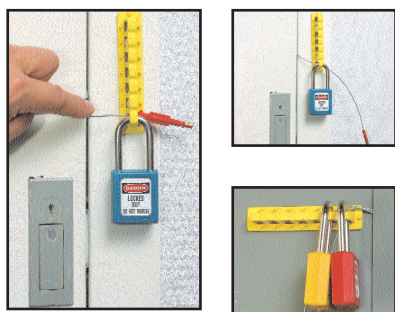
- Hinged single-pole lockout with locking post design, locks lever in off position to isolate and prevent breaker use
- Ideal for applications where panel closure is preferred
- Please see breaker guide for your application

Description	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Hinged Single-Pole Breaker Lockout	100	44-1810

Circuit Breaker Lockout Systems



Without Integral Locks



- Use your own padlocks
- Recommend rail mounted on outside of panel to permit closure
- Panel door can close on 1/16 in., vinyl coated, galvanized cable (panel spacing gasket may be needed on panel doors w/tight clearances)

Lockouts for Square D and other breakers with a lever through hole

Description	Cat. No.	
Starter Kit Panel Lock System – Integral Locks Square D	44-765	
Kit 44-765 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
Square D NQO locking cables with integral lock*	2	44-766

Lockouts for Standard, Straight Lever Breakers

Description	Cat. No.	
Starter Kit Panel Lock System – Integral Locks Standard	44-761	
Kit 44-761 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
120/277V Locking Cables with Integral Lock*	2	44-762

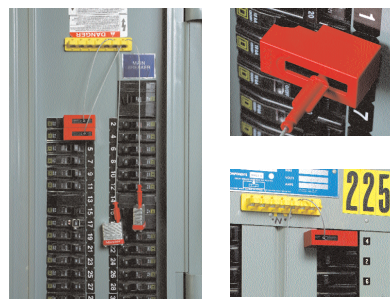
Description:	Qty.	Cat. No.
High density, self-adhesive panel spacing gasket, 3/8 in. x 1 in. x 15 ft.	1	44-750

*Components can be ordered separately by the catalog number listed. They are packaged in quantities of one.

Comply with the NEW “Disconnecting Means” standard for motor, motor circuits and controllers in **article 430.102B of the 2002 National Electric Code.**

- Adhesive backed rails allow system to be permanently installed in or just outside of an electrical panel, putting all lockout items at the point of need.
- Lockout systems allow the panel door to be shut during lockout applications.
- Optional Panel Spacing Gasket enables panel doors with tight clearances to be closed during lockout.
- Kits available for **standard 120-277 Volt Panels** and **SQ D NQO Series Panels**
- Locks single and multiple pole breakers.

With Integral Locks



- Cables come with master lock base to fit cable key
- Locks are small enough to allow the panel door to be closed during lockout

Description	Cat. No.	
Starter Kit Panel Lock System without Integral Locks Square D	44-767	
Kit 44-767 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
Square D NQO locking cables without integral lock*	2	44-768

Description	Cat. No.	
Starter Kit Panel Lock System without Integral Locks Standard	44-763	
Kit 44-763 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
120/277V Locking Cables without Integral Lock*	2	44-764

Wire Management

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Airpax	Airpax		1	44-809	44-785
American Switch	C		1	44-809 44-764 44-768	
Bryant	BR		1	44-810 44-809 44-764	
Bryan	BC		2-3	44-783	
Challenger	C		1	44-810 44-809 44-764	
Challenger	C	Type C	2-3	44-783 44-764	
Challenger	CDK	Same as W DK		44-807	
Challenger	LM		1	44-809 44-764	
Challenger	NEJ		1-2	44-809 44-764	44-785
Crouse Hinds	MP		2	44-783 44-764	
Cutler-Hammer	BA		1	44-809 44-764	
Cutler-Hammer	BAB	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	BAB	Quicklag	2-3	44-783	
Cutler-Hammer	BD	BR	1	44-810 44-809 44-764	
Cutler-Hammer	BR	BR	1	44-810 44-809 44-764	
Cutler-Hammer	BR	BR	2-3	44-783 44-764	
Cutler-Hammer	BRH	BR	1	44-810 44-809 44-764	
Cutler-Hammer	BRH	BR	2-3	44-783 44-764	
Cutler-Hammer	BRHH	BR	2	44-783 44-764	
Cutler-Hammer	CH	CH	1	44-810 44-809 44-768 44-764	
Cutler-Hammer	CH	CH	2-3	44-783 44-764	
Cutler-Hammer	CH2	CH	4	44-783 44-764	
Cutler-Hammer	CHB	CH	1	44-810 44-809 44-768 44-764	
Cutler-Hammer	CHB	CH	2-3	44-783 44-764	
Cutler-Hammer	CHKD	K-Frame	2-3	44-807	
Cutler-Hammer	CHLD	L-Frame	2-4	44-823	
Cutler-Hammer	CHMDL	M-Frame	2-3	44-823	
Cutler-Hammer	CHND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	CHP	CH	1	44-810 44-809 44-768 44-764	
Cutler-Hammer	CHP	CH	2-3	44-783 44-764	
Cutler-Hammer	CHQ	CH	1	44-810 44-809 44-768 44-764	

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Cutler-Hammer	CHQ	CH	2	44-783 44-764	
Cutler-Hammer	CHSW	CH	2-3	44-783 44-764	
Cutler-Hammer	CKD	K-Frame	2-3	44-807	
Cutler-Hammer	CL	CL	1	44-810 44-809 44-768 44-764	
Cutler-Hammer	CL	CL	2	44-783 44-764	
Cutler-Hammer	CLD	L-Frame	2-4	44-823	
Cutler-Hammer	CLDC	L-Frame	2-4	44-823	
Cutler-Hammer	CMDL	M-Frame	2-3	44-823	
Cutler-Hammer	CND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	CNDC	N-Frame	2-4	44-807	44-786
Cutler-Hammer	CSR	CH	1	44-809 44-764	
Cutler-Hammer	DK	K-Frame	2-3	44-807	
Cutler-Hammer	E125B	E125-Frame		44-809 44-764	
Cutler-Hammer	E125E	E125-Frame		44-809 44-764	
Cutler-Hammer	E125H	E125-Frame		44-809 44-764	
Cutler-Hammer	E125S	E125-Frame		44-809 44-764	
Cutler-Hammer	ED	F-Frame	2-4	44-809 44-764	
Cutler-Hammer	EDC	F-Frame	2-4	44-809 44-764	
Cutler-Hammer	EDH	F-Frame	2-4	44-809 44-764	
Cutler-Hammer	EFH	E125-Frame	1-4	44-809 44-764	
Cutler-Hammer	EGB	E125-Frame	1-4	44-809 44-764	
Cutler-Hammer	EGE	E125-Frame	1-4	44-809 44-764	
Cutler-Hammer	EGS	E125-Frame	1-4	44-809 44-764	
Cutler-Hammer	EHC			44-809 44-764	
Cutler-Hammer	EHD	F-Frame	1-4	44-809 44-764	
Cutler-Hammer	FB	Tri Pac Cur. Lim	2-3	44-809 44-764	44-785
Cutler-Hammer	FC			44-809 44-764	
Cutler-Hammer	FD	F-Frame	1-4	44-809 44-764	
Cutler-Hammer	FDB	F-Frame	2-4	44-809 44-764	
Cutler-Hammer	FDC	F-Frame	2-4	44-809 44-764	
Cutler-Hammer	FS	F-Frame	2-3	44-764	
Cutler-Hammer	GB	G-Frame	1-3	44-809 44-764	
Cutler-Hammer	GC	G-Frame	1-3	44-809 44-764	
Cutler-Hammer	GD	G-Frame	1-3	44-809 44-764	
Cutler-Hammer	GDB	G-Frame	1-3	44-809 44-764	
Cutler-Hammer	GHB	G-Frame	1-3	44-809 44-764	
Cutler-Hammer	GHBGFEP	G-Frame	1	44-809 44-764	
Cutler-Hammer	GHC	G-Frame	1-3	44-809 44-764	

Lockout/Tagout

Breaker recommendation chart is for reference only. Security of fit should be verified.

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Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Cutler-Hammer	GHC GFEP	G-Frame	1	44-809 44-764	
Cutler-Hammer	HBAW	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	HBAW	Quicklag	2-3	44-783	
Cutler-Hammer	HBAX	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	HBAX	Quicklag	2-3	44-783	
Cutler-Hammer	HFD		1-4	44-809 44-764	
Cutler-Hammer	HGHB	G-Frame	1	44-809 44-764	
Cutler-Hammer	HGHC	G-Frame	1	44-809 44-764	
Cutler-Hammer	HJD		2-4	44-807	
Cutler-Hammer	HKD	K-Frame	2-4	44-807	
Cutler-Hammer	HLD	L-Frame	2-4	44-823	
Cutler-Hammer	HMCP	L-Frame	3	44-823	
Cutler-Hammer	HMCP	J-Frame	3	44-807	
Cutler-Hammer	HMCP	K-Frame	3	44-807	
Cutler-Hammer	HMCP	L-Frame	3	44-823	
Cutler-Hammer	HMCP	F-Frame	3-4	44-809	
Cutler-Hammer	HMDL	M-Frame	2-3	44-823	
Cutler-Hammer	HMDLB	M-Frame	2-3	44-823	
Cutler-Hammer	HND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	HQP	Quicklag Type P	1	44-810 44-809 44-764	
Cutler-Hammer	HQP	Quicklag Type P	2	44-783	
Cutler-Hammer	JD	J-Frame	2-4	44-807	
Cutler-Hammer	JDB	J-Frame	2-3	44-807	
Cutler-Hammer	JDC	J-Frame	2-4	44-807	
Cutler-Hammer	KD	K-Frame	2-4	44-807	
Cutler-Hammer	KDB	K-Frame	2-4	44-807	
Cutler-Hammer	KDC	K-Frame	2-4	44-807	
Cutler-Hammer	LA	Tri Pac Cur. Lim	2-3	44-807	
Cutler-Hammer	LD	L-Frame	2-4	44-823	
Cutler-Hammer	LDB	L-Frame	2-3	44-823	
Cutler-Hammer	LDC	L-Frame	2-4	44-823	
Cutler-Hammer	LH		3	44-807	
Cutler-Hammer	LHB		3	44-807	
Cutler-Hammer	LJ	Type CC		44-764	
Cutler-Hammer	MA		2-3	44-807	44-786
Cutler-Hammer	MC		2-3	44-807	44-786
Cutler-Hammer	MD	M-Frame	2-3	44-823	
Cutler-Hammer	MDL	M-Frame	2-3	44-823	
Cutler-Hammer	MDS	M-Frame	2-3	44-823	
Cutler-Hammer	NB	Tri Pac Cur. Lim	2-3	44-823	
Cutler-Hammer	ND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	NDC	N-Frame	2-4	44-807	44-786
Cutler-Hammer	OPTIM	N-Frame	3	44-807	44-786
Cutler-Hammer	PB	Tri Pac Cur. Lim	2-3	44-823	
Cutler-Hammer	QBG F	Quicklag	1	44-809	
Cutler-Hammer	QBG F	Quicklag	2	44-764	
Cutler-Hammer	QBG FEP	Quicklag	1	44-809	
Cutler-Hammer	QBG FEP	Quicklag	2	44-764	
Cutler-Hammer	QBHG F	Quicklag	1	44-809	
Cutler-Hammer	QBHG FEP	Quicklag	1	44-809	
Cutler-Hammer	QBHW	Quicklag	1	44-810 44-764	
Cutler-Hammer	QBHW	Quicklag	2-3	44-783	
Cutler-Hammer	QC	Quicklag Type P	1	44-810 44-809 44-764	
Cutler-Hammer	QC	Quicklag Type P	2-3	44-783 44-764	

Breaker recommendation chart is for reference only. Security of fit should be verified.

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Cutler-Hammer	QCD	Quicklag Type P	1	44-810 44-809 44-764	
Cutler-Hammer	QCD	Quicklag Type P	2-3	44-783 44-764	
Cutler-Hammer	QCG F	Quicklag	1	44-809	
Cutler-Hammer	QCG FEP	Quicklag	1	44-809	
Cutler-Hammer	QCHG F	Quicklag	1	44-809	
Cutler-Hammer	QCHG FEP	Quicklag	1	44-809	
Cutler-Hammer	QCHW	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	QCHW	Quicklag	2-3	44-783 44-764	
Cutler-Hammer	QHCX	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	QHCX	Quicklag	2-3	44-783 44-764	
Cutler-Hammer	QHPW	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	QHPW	Quicklag	2-3	44-783	
Cutler-Hammer	QHPX	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	QHPX	Quicklag	2-3	44-783	
Cutler-Hammer	QPG F	Ground Fault	1	44-809	
Cutler-Hammer	QPG F		2	44-764	
Cutler-Hammer	QPG FEP	Ground Fault	1	44-809	
Cutler-Hammer	QPG FEP		2	44-764	
Cutler-Hammer	QPHG F	Ground Fault	1	44-809	
Cutler-Hammer	QPHG FEP	Ground Fault	1	44-809	
Cutler-Hammer	QPHW	Quicklag	1	44-810 44-809 44-764	
Cutler-Hammer	QPHW	Quicklag	2-3	44-783	
Fed. Pacific Elec.	BAB		1	44-809 44-764	
Fed. Pacific Elec.	Type NA		1	44-809	
Fed. Pacific Elec.	NA-single		3	44-807 44-764	44-786
Fed. Pacific Elec.	NA-tie bar		2	44-764	
Fed. Pacific Elec.	NB		1	44-809 44-764	44-785
Fed. Pacific Elec.	Type NB		2	44-783	
Fed. Pacific Elec.	Type NB		3	44-807	
Fed. Pacific Elec.	Type NASW		1	44-809	
Fed. Pacific Elec.	NEJH/HEJ		3	44-809	
Fed. Pacific Elec.	NBH GFI		1	44-809 44-764	
Fed. Pacific Elec.	NE/NEF			44-809	44-785
Fed. Pacific Elec.	NEJ			44-809	44-785
Fed. Pacific Elec.	NFJ			44-809	
Fed. Pacific Elec.	NJJ			44-807	
Fed. Pacific Elec.	NJL			44-807	
Fed. Pacific Elec.	NM			44-807	
Fed. Pacific Elec.	NP-single		1	44-809 44-764	
Frank Adams Elec. Co.	P	FA Quicklag	1	44-809 44-764	
Frank Adams Elec. Co.	Toggle		1	44-809	
Frank Adams Elec. Co.	BG		1	44-809	
Frank Adams Elec. Co.	BA		1	44-809	
General Electric	HQC	Type C	3	44-809 44-764	
General Electric	SED	SE150	2-3	44-809 44-764	
General Electric	SEH	SE150	2-3	44-809 44-764	

Wire Management

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
General Electric	SEL	SE150	2-3	44-809 44-764	
General Electric	SEP	SE150	2-3	44-809 44-764	
General Electric	SFH	SF250	2-3	44-809 44-764	
General Electric	SFL	SF250	2-3	44-809 44-764	
General Electric	SFP	SF250	2-3	44-809 44-764	
General Electric	TB1	Tri Break		44-809 44-764	44-785
General Electric	TB4	Tri Break		44-809 44-764	44-785
General Electric	TB6	Tri Break		44-809 44-764	44-785
General Electric	TB8	Tri Break		44-809 44-764	44-785
General Electric	TBC4	Mag Break		44-809 44-764	44-785
General Electric	TBC6	Mag Break		44-809 44-764	44-785
General Electric	TBC8	Mag Break		44-809 44-764	44-785
General Electric	TE	E150	1-3	44-809 44-764	44-785
General Electric	TEB	E150	1-3	44-809 44-764	44-785
General Electric	TED	E150	1-3	44-809 44-764	44-785
General Electric	TEF		1-3	44-809 44-764	44-785
General Electric	TEL	E150	3	44-809 44-764	44-785
General Electric	TEML	Mag Break	3	44-809 44-764	44-785
General Electric	TEY	E150	1-3	44-809 44-764	
General Electric	TF	E150	1-3	44-809 44-764	
General Electric	TFC	Mag Break	3	44-809 44-764	
General Electric	TFJ	F225	2-3	44-807	
General Electric	TFK	F225	2-3	44-807	
General Electric	TFL	F225	3	44-807	
General Electric	THED	Like TED	1-3	44-809 44-764	44-785
General Electric	THEF	Like TED		44-809 44-764	44-785
General Electric	THFJ		2, 3	44-807	
General Electric	THFK	F225	2-3	44-807	
General Electric	THHQB	Q Line	2-3	44-783 44-764	
General Electric	THHQB-A	Q Line	1	44-810 44-809 44-764	
General Electric	THHQB-S	Q Line	1	44-809 44-764	
General Electric	THHQC	Q Line	1-3	44-783 44-764	
General Electric	THHQC-A	Q Line	1	44-810 44-809 44-764	
General Electric	THHQC-S	Q Line	1	44-809 44-764	
General Electric	THHQL	Q Line	2-3	44-783 44-764	
General Electric	THHQL-A	Q Line	1	44-810 44-809 44-764	

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
General Electric	THHQL-S	Q Line	1	44-809 44-764	
General Electric	THJK4	J600	2-3	44-807	44-786
General Electric	THJK6	J600	2-3	44-807	44-786
General Electric	THKM12	K1200	2-3	44-823	
General Electric	THKM8	K1200	2-3	44-823	
General Electric	THLC1	THLC Current Limiting	3	44-809	
General Electric	THQB	Q Line	2, 3	44-783 44-764	
General Electric	THQB-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQB-S	Q Line	1	44-809 44-764	
General Electric	THQC	Q Line	2-3	44-783 44-764	
General Electric	THQC-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQC-AL	Q Line	2-3	44-783 44-764	
General Electric	THQC-S	Q Line	1	44-809 44-764	
General Electric	THQD	Q Line	2-3	44-809 44-807 44-764	
General Electric	THQDBL	Q Line	3	44-764	
General Electric	THQL	Q Line	2-3	44-783 44-764	
General Electric	THQL-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQL-S	Q Line	1	44-809 44-764	
General Electric	TJ4		3	44-807	
General Electric	TJC	Mag Break		44-809 44-807 44-764	
General Electric	TJD	TJD432400WL	2-3	44-807	44-786
General Electric	TJJ	J600	2-3	44-807	44-786
General Electric	TJK4	J600	2-3	44-807	44-786
General Electric	TJK6	TJK636F000	2-3	44-807	44-786
General Electric	TJS	TJS3604S		44-807	44-786
General Electric	TK4V	MicroVersaTrip	3	44-807	
General Electric	TKC	Mag Break	3	44-809 44-764	44-785
General Electric	TKM4	TKM4365000		44-823	
General Electric	TKM8	K1200	2-3	44-823	
General Electric	TKMA8		3	44-823	
General Electric	TQB	Q Line	2-3	44-783 44-764	
General Electric	TQB-A	Q Line	1	44-810 44-809 44-764	
General Electric	TQB-S	Q Line	1	44-809 44-764	
General Electric	TQC	Q Line	2-3	44-783 44-764	
General Electric	TQC-A		1	44-810 44-809 44-764	
General Electric	TQC-S		1	44-809 44-764	
General Electric	TQD	Q Line	2-3	44-809	
General Electric	TQL		2, 3	44-783	
General Electric	TQL-A	Q Line	1	44-810 44-809 44-764	
General Electric	TQL-S	Q Line	1	44-809 44-764	

Lockout/Tagout

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Heinemann	SMG4		1	44-809	
Heinemann	AMIZ		1	44-809	
Heinemann	KU		1	44-809	
Heinemann	KL		1	44-809	
Heinemann	LB		1	44-809	44-785
Heinemann	LF		1	44-809	44-785
Heinemann	LJ		1	44-809	44-785
Merlin Gerin	CJ	400 Amp series	3	44-807	44-786
Siemens ITE	BL		1	44-810 44-809 44-768 44-764	
Siemens ITE	BL		2-3	44-783 44-764	
Siemens ITE	BLF-GFI		2	44-783 44-764	
Siemens ITE	BLH		1	44-810 44-809 44-764	
Siemens ITE	BLH		2-3	44-783 44-764	
Siemens ITE	BQ		1	44-810 44-809 44-764	
Siemens ITE	BQ		2-3	44-783 44-764	
Siemens ITE	BQCH		1-3	44-809 44-764	
Siemens ITE	BQD		1-3	44-809 44-764	
Siemens ITE	BQD6		1-3	44-809 44-764	
Siemens ITE	BQH		1	44-810 44-809 44-764	
Siemens ITE	BQH		2-3	44-783 44-764	
Siemens ITE	CED6		2-3	44-809 44-764	
Siemens ITE	CFD6		2-3	44-807	44-786
Siemens ITE	CFD6-ETI		2-3	44-807	44-786
Siemens ITE	CJ3			44-807	
Siemens ITE	CJD6		2-3	44-807	
Siemens ITE	CJD6-ETI		2-3	44-807	
Siemens ITE	CLF		2	44-807	44-786
Siemens ITE	CMD6		3	44-823	
Siemens ITE	CMD6-ETI		3	44-823	
Siemens ITE	CND6		3	44-823	
Siemens ITE	CPD6		3	44-823	
Siemens ITE	CQD		1-3	44-809 44-764	44-785
Siemens ITE	E2			44-809 44-764	
Siemens ITE	E4		1	44-809 44-764	
Siemens ITE	ED2		1-3	44-809 44-764	
Siemens ITE	ED4		1-3	44-809 44-764	
Siemens ITE	ED6		1-3	44-809 44-764	
Siemens ITE	ED6-ETI		3	44-809 44-764	
Siemens ITE	EE3			44-809	44-785
Siemens ITE	EE		1, 2, 3	44-809	44-785
Siemens ITE	EH		1, 2, 3	44-809	44-785
Siemens ITE	ET-JJ		3	44-807	44-786
Siemens ITE	QJ3B		2, 3	44-809	44-785
Siemens ITE	QJ22B		2, 3	44-809	44-785
Siemens ITE	QJ23B		2, 3	44-809	44-785

Breaker recommendation chart is for reference only. Security of fit should be verified.

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Siemens ITE	QJH22B		2, 3	44-809	44-785
Siemens ITE	QJH23B		2, 3	44-809	44-785
Siemens ITE	EE3			44-809 44-764	44-785
Siemens ITE	EH3			44-809 44-764	44-785
Siemens ITE	EQP		4	44-783 44-764	
Siemens ITE	ET	F-Frame		44-809 44-764	44-785
Siemens ITE	FD6A		2-3	44-807	44-786
Siemens ITE	FJ2-B		2-3	44-809 44-807	44-785 44-786
Siemens ITE	FJ3		2	44-807	
Siemens ITE	FJ6		2	44-807	44-786
Siemens ITE	FXD6A		2-3	44-807	44-786
Siemens ITE	FXD6-ETI		2-3	44-807	44-786
Siemens ITE	GF		1	44-809 44-764	
Siemens ITE	HBL		1	44-810 44-809 44-764	
Siemens ITE	HBL		2-3	44-783 44-764	
Siemens ITE	HBQ		1	44-810 44-809 44-764	
Siemens ITE	HBQ		2-3	44-783 44-764	
Siemens ITE	HE4			44-809 44-764	
Siemens ITE	HED4		1-3	44-809 44-764	
Siemens ITE	HED6		2-3	44-809 44-764	
Siemens ITE	HFD6		2-3	44-807	44-786
Siemens ITE	HFXD6		2-3	44-807	44-786
Siemens ITE	HHED6		2-3	44-809 44-764	
Siemens ITE	HHFD6		2-3	44-807	44-786
Siemens ITE	HHJD6		2-3	44-807	
Siemens ITE	HHJXD6		2-3	44-807	
Siemens ITE	HJD6		2-3	44-807	
Siemens ITE	HJD6-A		2-3	44-807	
Siemens ITE	HJXD6		2-3	44-807	
Siemens ITE	HJXD6-A		2-3	44-807	
Siemens ITE	HMD6		2-3	44-823	
Siemens ITE	HMXD6		2-3	44-823	
Siemens ITE	HND6		2-3	44-823	
Siemens ITE	HNXD6		2-3	44-823	
Siemens ITE	HPD6		3	44-823	
Siemens ITE	HPXD6		3	44-823	
Siemens ITE	HQJ2-H		3	44-809 44-764	
Siemens ITE	HQP		1	44-810 44-809 44-764	
Siemens ITE	HQP		2-3	44-783 44-764	
Siemens ITE	HQPP		1	44-810 44-809 44-764	
Siemens ITE	HQPP		2-3	44-783 44-764	
Siemens ITE	HQPPH		2	44-783 44-764	
Siemens ITE	HRD6		3	44-823	
Siemens ITE	HRXD6		3	44-823	
Siemens ITE	JD6-A		2-3	44-807	
Siemens ITE	JJ3			44-807	

Breaker recommendation chart is for reference only. Security of fit should be verified.

Wire Management

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Siemens ITE	JL3		3	44-807	
Siemens ITE	JXD2-A		2-3	44-807 44-823	
Siemens ITE	JXD6-A		2-3	44-807 44-823	
Siemens ITE	LL3			44-807	
Siemens ITE	MD6		2-3	44-823	
Siemens ITE	MXD6		2-3	44-823	
Siemens ITE	MXD6-ETI		2-3	44-823	
Siemens ITE	ND6		2-3	44-823	
Siemens ITE	NXD6		2-3	44-823	
Siemens ITE	PD6		3	44-823	
Siemens ITE	PXD6		3	44-823	
Siemens ITE	QJ2		2-3	44-809 44-764	44-785
Siemens ITE	QJ2-H		2-3	44-809 44-764	44-785
Siemens ITE	QJH2		2-3	44-809 44-764	44-785
Siemens ITE	QP		1	44-810 44-809 44-764	
Siemens ITE	QP		2-3	44-783 44-764	
Siemens ITE	QP1		1	44-809 44-764	
Siemens ITE	QPH		1	44-810 44-809 44-764	
Siemens ITE	QPH		2-4	44-783 44-764	
Siemens ITE	QPP		1	44-810 44-809 44-764	
Siemens ITE	QPP		2-3	44-783 44-764	
Siemens ITE	QPPH		1	44-810 44-809 44-764	
Siemens ITE	QPPH		2-3	44-783 44-764	
Siemens ITE	RD6		3	44-823	
Siemens ITE	RXD6		3	44-823	
Siemens ITE	SCMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SCND6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SHMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SND6	Sol St Trip Ckt Bkr	3	44-823	
Simplex	NX		3	44-807	44-786
Square D	EDB		1-3	44-809 44-764	
Square D	EGB		1-3	44-809 44-764	
Square D	EH4		1-3	44-809 44-764	
Square D	EHB		1	44-809 44-764	
Square D	EHB		2-3	44-783 44-764	
Square D	EJB		1-3	44-809 44-764	
Square D	EZ		3	44-823	
Square D	FA	100 Amp Frame	1-3	44-809	44-785
Square D	FAL	100 Amp Frame	1-3	44-809	44-785
Square D	FC	100 Amp Frame	3	44-809	44-785
Square D	FCL	100 Amp Frame	2-3	44-809	44-785
Square D	FDA	FDA 34040		44-809 44-764	
Square D	FH	100 Amp Frame	1-3	44-809	44-785
Square D	FHL	100 Amp Frame	1-3	44-809	44-785

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Square D	FHL-DC	100 Amp Frame	3	44-809	44-785
Square D	FI	100 Amp Frame	3	44-809	44-785
Square D	FIL	100 Amp Frame	3	44-809	44-785
Square D	FY	100 Amp Frame	1	44-809	44-785
Square D	GJL	Mag Gard	3	44-809	44-785
Square D	KA	250 Amp Frame	2-3	44-809	44-785
Square D	KAL		2-3	44-809	44-785
Square D	KAP			44-807	
Square D	KC	250 Amp Frame	2-3	44-809	44-785
Square D	KCL		2-3	44-809	44-785
Square D	KH	250 Amp Frame	2-3	44-809	44-785
Square D	KHL		3	44-809	44-785
Square D	KI	250 Amp Frame	2-3	44-809	44-785
Square D	KIL	250 Amp Frame	2-3	44-809	44-785
Square D	LA	400 Amp Frame	2-3	44-807	44-786
Square D	LAL		2-3	44-807 44-823	44-786
Square D	LH	400 Amp Frame	2-3	44-807	44-786
Square D	LHL		3	44-807 44-823	44-786
Square D	LHP			44-807 44-823	44-786
Square D	MA		3	44-823	
Square D	MA	1000 Amp Frame	2-3	44-807	44-786
Square D	MAL		3	44-823	
Square D	MH	1000 Amp Frame	2-3	44-807	44-786
Square D	MHL		2-3	44-823	
Square D	ML-1		3	44-807	44-786
Square D	ML-3		3	44-823	
Square D	Q1B	250 Amp Frame	2-3	44-809 44-764	
Square D	Q1L	250 Amp Frame	2-3	44-809 44-764	
Square D	Q2	250 Amp Frame	2-3	44-809	44-785
Square D	Q2H	250 Amp Frame	2-3	44-809	44-785
Square D	Q2L	250 Amp Frame	2-3	44-809	44-785
Square D	Q2MT	250 Amp Frame	2-3	44-809	44-785
Square D	Q4	400 Amp Frame	2-3	44-807	44-786
Square D	Q4L	400 Amp Frame	2-3	44-807	44-786
Square D	QO	QO	1	44-768	
Square D	QO	QO	2-3	44-810 44-809 44-768 44-764	
Square D	QOB	QO	1	44-768	
Square D	QOB	QO	2-3	44-810 44-809 44-768 44-764	
Square D	QOB-H	QO	2	44-768	
Square D	QOB-VH	QO	1	44-810 44-809 44-768	
Square D	QOB-VH	QO	2-3	44-783	
Square D	QO-H	QO	2	44-768	
Square D	QOM1-VH	Main Circuit Breaker QO	2	44-809 44-764	
Square D	QOM2-VH	Main Circuit Breaker QO	2	44-809 44-764	
Square D	QO-SWN	QO	2-3	44-810 44-809 44-768 44-764	
Square D	QOU	DIN Rail Mount QO	1	44-768	
Square D	QOU	DIN Rail Mount QO	2-3	44-809 44-768 44-764	
Square D	QOU w/tie	DIN Rail Mount QO	2-3	44-783 44-764	
Square D	QO-VH	QO	1	44-768	

Lockout/Tagout

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Square D	QO-VH	QO	2-3	44-810 44-809 44-768 44-764	
Square D	QYU	DIN Rail Mount	1	44-768	
Square D	Y1			44-807	
Sylvania GTE	QC		2	44-783 44-764	
Sylvania GTE	Type C		2	44-783 44-764	
Thomas & Betts	F Frame		1-3	44-809 44-764	
Westinghouse	BA		1	44-810 44-809 44-764	
Westinghouse	BA		2-3	44-809 44-783 44-764	
Westinghouse	BAB		1	44-810 44-809 44-764	
Westinghouse	BR		1	44-810 44-809 44-764	
Westinghouse	BR		2-3	44-783 44-764	
Westinghouse	BRH		2-3	44-783	
Westinghouse	CA			44-809	44-785
Westinghouse	DA			44-807	
Westinghouse	DK			44-807	
Westinghouse	EB		1-3	44-809 44-764	44-785
Westinghouse	ED			44-809 44-764	
Westinghouse	EH		1-3	44-809 44-764	
Westinghouse	EHB		1-3	44-809	44-785
Westinghouse	EHD		1-3	44-809 44-764	
Westinghouse	FA		3	44-809 44-764	44-785
Westinghouse	FB		2-3	44-809 44-764	44-785
Westinghouse	FD		1-4	44-809 44-764	
Westinghouse	FDB		2-4	44-809 44-764	
Westinghouse	FDC		2-4	44-809 44-764	
Westinghouse	FP	For Fire Protection	3	44-807	44-786
Westinghouse	GB		1-3	44-809 44-764	
Westinghouse	GBH		1-3	44-809 44-764	
Westinghouse	GHB		1-3	44-809 44-764	
Westinghouse	GR		3	44-807	
Westinghouse	HBAW		1	44-810 44-809 44-764	
Westinghouse	HBAX		1	44-810 44-809 44-764	
Westinghouse	HCA		3	44-809 44-764	44-785
Westinghouse	HFB		1-3	44-809 44-764	44-785
Westinghouse	HFD		1-4	44-809 44-764	

Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Westinghouse	HKD		3	44-807	
Westinghouse	HLA			44-807	
Westinghouse	HLB			44-807	
Westinghouse	HMC			44-807	
Westinghouse	HMCP			44-809 44-764	44-785
Westinghouse	HNC			44-823	
Westinghouse	HQNP		3	44-809 44-764	
Westinghouse	HQP		1	44-810 44-809 44-764	
Westinghouse	JA			44-807	
Westinghouse	JD		2-4	44-807	
Westinghouse	KA		3	44-807	44-786
Westinghouse	KB			44-807	
Westinghouse	LA		3	44-807	44-786
Westinghouse	LB			44-807	
Westinghouse	LBB		3	44-807	
Westinghouse	LH			44-807	
Westinghouse	MA		2-3	44-807	44-786
Westinghouse	MC		2-3	44-807	44-786
Westinghouse	MCC		2-3	44-807	44-786
Westinghouse	MCPO		3	44-809 44-764	44-785
Westinghouse	NB			44-823	
Westinghouse	P		3	44-809 44-764	
Westinghouse	QBHW		1	44-810 44-809 44-764	
Westinghouse	QC		1	44-810 44-809 44-764	
Westinghouse	QC	Quicklag C	3	44-783	
Westinghouse	QCHQ		1	44-810 44-809 44-764	
Westinghouse	QHCW		1	44-810 44-809 44-764	
Westinghouse	QHCX		1	44-810 44-809 44-764	
Westinghouse	QHPW		1	44-810 44-809 44-764	
Westinghouse	QPHW		1	44-810 44-809 44-764	
Westinghouse	Quicklag P			44-809 44-764	
Westinghouse	RE			44-809 44-764	
Westinghouse	RH		3	44-807	
Westinghouse	WPHX		1	44-810 44-809 44-764	
Zinsco	HQB		3	44-809 44-764	
Zinsco	QB		1	44-809 44-764	
Zinsco	QCB		2	44-783 44-764	
Zinsco	Type Q		1	44-809 44-764	
Zinsco	Type T		1	44-809 44-764	

Breaker recommendation chart is for reference only. Security of fit should be verified.

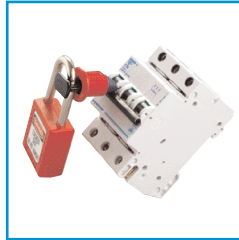
Miniature Circuit Breaker Lockouts for European-Style Breakers

- Easy to install push button action – requires no tools
- Lightweight Xenoy locks are required
- See user guide below for the style that fits your application

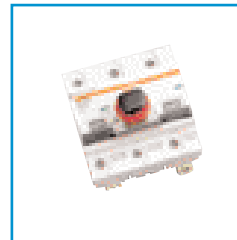
Pins Out – #44-779



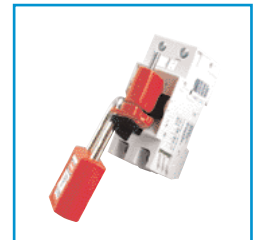
Pins In – #44-780



Pins Out Wide – #44-784



Tie Bar – #44-787

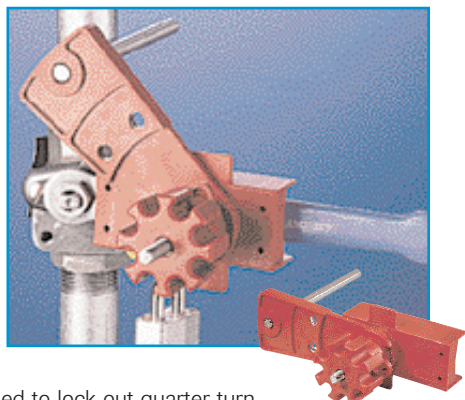


Manufacturer	Model	Breaker Number of Poles	IDEAL Lockout Device
ABB	F374	1	44-779
	S222	1	44-779
	S251, S261, S263	1	44-779
	S272, S253	1	44-779
	S253	3	44-779
AEG	E82S	2	44-779
Allen-Bradley	1492-CB1, 2, 3	1,2,3	44-779
Buschmat	S46	1	44-779
Clipsal	4CB116	1	44-779
	4CB320	3	44-779
Cutler-Hammer	WME	1-3	44-779
	WMF	1-3	44-779
	WMH	1-4	44-779
	WMM	1-4	44-779
	WMN	1-4	44-779
	WMS	1-4	44-779
E-T-A	911225	1	44-780
	911220G	2	44-779
FAZ	C16	1	44-779
	C16	4	44-779
General Electric	1 Pole	1	44-780
	2 Pole	2	44-780
	3 Pole	3	44-780
	SGD	2-3	44-779
	SGH1	3	44-779
	SGH4	2-3	44-779
	SGH6	2-3	44-779
	SGL1	2-3	44-779
	SGL4	2-3	44-779
	SGL6	2-3	44-779
General Electric	SGLA		44-779
	SGP4	2-3	44-779
	SGP5	2-3	44-779
	V	1-3	44-780
GE Vynckier	V-Line	1-4	44-780
	Series G	1	44-780
	Series E	3	44-780
	Series G	3	44-780
GE Vynckier 16A	Series E	4	44-780
	Series E	2	44-780
	Series E	1	44-780
	Series E	1	44-780
Hager	MW216A	2	44-779
	453717	3	44-779

Manufacturer	Model	Breaker Number of Poles	IDEAL Lockout Device
Hager	MW620A	4	44-779
Kapp	LS68	1	44-780
Legrand	01908	1	44-779
	01935	2	44-787
	04302	2	44-780
	01980	3	44-787
	06469	3	44-780
	01980	4	44-787
Lemag	SD62	1	44-809
Merlin Gerin	C32N	1-4	44-779
	C45AD	3	44-779
	C60	1-4	44-779
	C60H	1-4	44-779
	C60L	2-3	44-779
	C60N	1-4	44-779
	C80A	3	44-784 or 44-787
	NC100N	1-4	44-784
	NC100N	1-4	44-784
Merlin Gerin+B83	B100A	2	44-784 or 44-787
Proteus	C16	1	44-779
	C6	1,3	44-779
	BSEN60947-3	2	44-783
	AC22 BS5419	2	44-783
Siemens 17U	5SQ11	1	44-784
	5SQ12	2	44-787
	5SQ13	3	44-787
	5SQ16	4	44-787
Siemens B32	5SX21	1	44-784
Siemens Big Sgl Throw	3VF3	3	44-809
Siemens C10	5SX1	1	44-784
Siemens C32	5SX1-2	2	44-787
Siemens C70	5SX13	3	44-787
Siemens L20A	5SN2-2	2	44-787
Square D	Q1B	2-3	44-784
	Q1L	2-3	44-784
	Q2	2-3	44-784
	Q2H	2-3	44-784
	Q2L	2-3	44-784
	Q2MT	2-3	44-784
	Q4	2-3	44-784
Sursum	Q4L	2-3	44-784
	Q4L	2-3	44-784
Wylex	EA53	3	44-780
Wylex	WRS40/2	2	44-779

Breaker recommendation chart is for reference only. Security of fit should be verified.

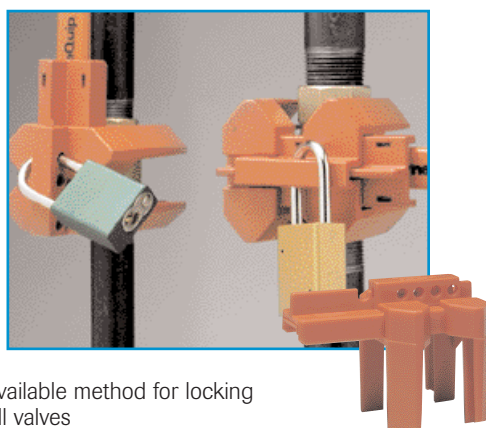
Universal Ball Valve Lockouts



- Designed to lock out quarter turn valves of varying sizes and geometries
- Accommodates handle sizes to 1-1/14 in. thick x 1-5/8 in. wide
- Locks valves in on or off
- Nylon and stainless steel construction

Description	Cat. No.
Small Universal Ball Valve Lockout w/1 in. x 3/4 in. handle	44-770
Large Universal Ball Valve Lockout w/1-5/8 in. x 1-1/4 in. handle	44-771

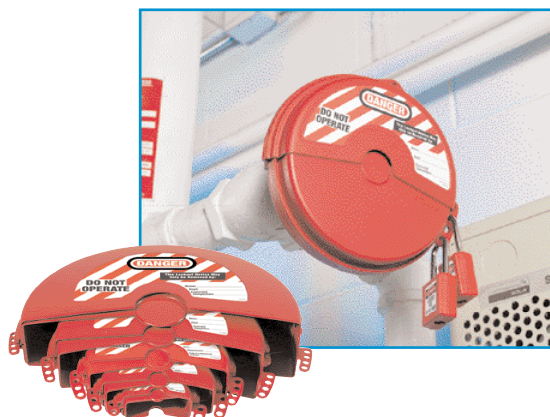
Ball Valve Lockout Devices



- Best available method for locking out ball valves
- Patented design fits most major brand ball valves
- Designed to lock in off position only
- Complies with OSHA lockout standard

Valve Size (In.)	Max. Shackle Length	Material	Cat. No.
1/2 to 1-1/4	—	Polypropylene	44-846
1-1/4 to 3	—	Polypropylene	44-847
1/4 to 1 (not shown)	9/32	Nylon	44-820
1-1/4 to 3 (not shown)	9/32	Heavy steel	44-821

Gate Valve Lockouts



- Unique patent pending rotating design allows for easier installation in confined space applications
- Each size rotates into itself and nests within the next larger size to save space in storage
- Up to four workers can apply their personal safety locks
- Complete with high-visibility permanent safety labels (English, French & Spanish) that can be written on to identify the responsible person, then erased for the next job
- Tough, lightweight, dielectric Xenoy thermoplastic bodies withstand chemicals; perform effectively in extreme conditions (temperature range -50°F (-46°C) to +350°F (177°C))

Valve Size	Qty.	Cat. No.
1 in. to 3 in.	1	44-824
2 in. to 5 in.	1	44-825
4 in. to 6-1/2 in.	1	44-826
6 in. to 10 in.	1	44-827
8 in. to 13 in.	1	44-828
Set of five sizes (1 in. to 13 in.)	—	44-818

Pneumatic Lockout

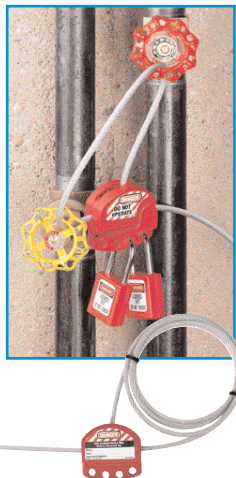
- Isolates equipment from compressed air
- Fits C, D and E couplers
- Accommodates most 1/4 in., 3/8 in. and 1/2 in. fittings
- Accepts 1/4 in. or 9/32 in. padlock shackles
- Durable plastic construction



Description	Cat. No.
Pneumatic Lockout	44-774

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" dia. steel cable is insulated with a clear vinyl coating
- Tough, lightweight, dielectric Xenoy® thermoplastic body withstands chemicals; performs effectively in extreme conditions
- Up to four workers can apply their personal safety locks
- Complete with high-visibility, re-usable, write-on safety labels (English, French & Spanish). Identify the responsible person, then erase for the next job.



Description	Cat. No.
Adjustable Cable Lockout	44-808

Cable Lockouts

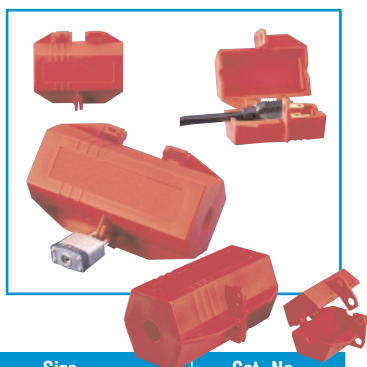
- 44-829 Unique hasp lockout device accepts up to six 9/32 in. padlocks and comes with a 6 ft. plastic-coated steel cable
- 44-781 (not shown), Red Impact modified nylon body with 6 ft., 1/8 in. galvanized steel cable



Description	Cat. No.
Cable Lockout, 6 ft. cable	44-829
Cable Lockout System (not shown), 6 ft. cable	44-781

Plug Lockouts

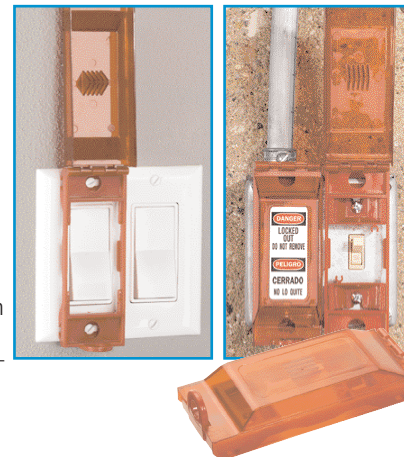
- Accommodate a variety of electrical plug and cord sizes to prevent accidental connection or disconnection
- Durable plastic body resists wear, chemicals and job-site abuse
- Accommodates cable ties or padlocks (with up to 3/8 in. shackles)



Description	Size	Cat. No.
Plug Lockouts – 110V	2 in. x 2 in. x 3-1/2 in.	44-818
Plug Lockouts – 220/550V	3-1/4 in. x 3-1/4 in. x 7 in.	44-819

Wall Switch Lockouts

- Our patent pending universal Wall Switch Lockout locks out both toggle and decora wall switches
- The universal design assures switch is locked on or off. It also hinges open for unobstructed normal switch operation
- The standard wall switch lockout fits most wall-mounted single or three-way electrical switches



Description	Qty./Card	Cat. No.
Universal Wall Switch Lockout	1	44-772
Standard Wall Switch Lockout (not shown)	1	44-789

Electric Plug Lockout

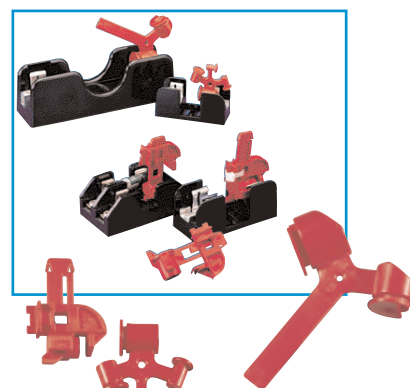
- Slides over cord prongs and locks in place to prevent cord from being plugged into an outlet
- Cannot be removed without key
- Works on any 2- or 3-prong plug



Description	Cat. No.
Electric Plug Lockout	44-782
Electric Plug Lockout (keyed alike – key 8002)	44-8002

Fuse Blockout and Lockout Devices

- Highly visible fuse blockouts snap into blade-type fuse blocks to prevent installation of fuses
- Fuse lockout snaps easily into place and can be cable tied for added security
- Fits most Buss and Gould fuse blocks



Description	Qty./Card	Cat. No.
1/4, 9/32 and 9/16 in. Fuse Lockout	2	44-815
13/16 in., 1-1/6 in. and Blade Fuse Lockout	2	44-816
13/32 in. Fuse Lockout	2	44-813

Aluminum Safety Lockout Padlocks



- High visibility, baked-on powder coated finish stays bright
- Ideal for corrosive and tough environments
- 1-1/16 in. shackle clearance
- 1-9/16 in. wide lock with 1/4 in. shackle clearance
- Hardened shackles for superior resistance to cutting
- Keyed alike, master-keyed, additional colors and engraving available by special order

Bumper Color	Cat. No.
Blue	44-920
Black	44-921
Red	44-922
Yellow	44-923

Steel Padlocks

- Rustproofed, steel case with nickel-plated shackle withstands abuse and environmental hazards
- Includes two keys
- 1-1/2 in. wide lock with 9/32 in. shackle diameter
- Keyed-alike and Master-Keyed locks available by special order



Bumper Color	3/4 In. Shackle Clearance Cat. No.	2 In. Shackle Clearance Cat. No.
Blue	44-900	44-901
Black	44-902	44-903
White	44-904	44-905
Red	44-906	44-907
Green	44-908	44-909
Yellow	44-910	44-911

Xenoy Safety Lockout Padlocks



- Dedicated safety lockout device reduces confusion with other locks
- Complies with OSHA's "1-key, 1-lock"
- Non-conductive, lightweight Xenoy® body
- 1-1/2 in. shackle clearance
- 1-1/2 in. wide lock with 1/4 in. shackle
- Four colors for easy identification
- Keyed alike, Master-Keyed, 2nd key, additional colors and engraving available by special order

Bumper Color	Cat. No.
Blue	44-912
Black	44-914
Red	44-916
Yellow	44-918

Lock Labels



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

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

Marking Pens

- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates
- Color-coded in red or black



Description	Cat. No.
Marking Pen w/black ink	41-697
Marking Pen w/red ink	41-698

Heavy-Duty Lockout Tags



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

Legend	Type	Qty.	Cat. No.
Do Not Operate	Heavy-Duty Laminated	Card of 5	44-830
Do Not Operate	Heavy-Duty Laminated	Box of 100	44-1830
Do Not Operate	Economy Vinyl	Bag of 25	44-848
Do Not Operate – Maintenance Department	Heavy-Duty Laminated	Card of 5	44-831
Do Not Operate – Maintenance Department	Economy Vinyl	Bag of 25	44-844
Do Not Operate – Electricians at Work	Heavy-Duty Laminated	Card of 5	44-832
Do Not Operate – Electricians at Work	Economy Vinyl	Bag of 25	44-843
Do Not Operate – (red striped background)	Heavy-Duty Laminated	Card of 5	44-833
Do Not Operate – (red striped background)	Heavy-Duty Laminated	Box of 100	44-1833
Do Not Operate – (red striped background)	Economy Vinyl	Bag of 25	44-849
Do Not Operate – Lockout Steps Required	Heavy-Duty Laminated	Card of 5	44-835
Do Not Operate – Lockout Steps Required	Heavy-Duty Laminated	Box of 100	44-1835
Do Not Operate (Photo ID - Self Sealant)	Heavy-Duty Laminated	Card of 5	44-834

Bilingual Lockouts and Tags



- Spanish/English tags provide extra safety and information in bilingual situations
- High-visibility lettering
- Laminated plastic tags with non-fade legends resist corrosive and harsh environmental conditions
- Write-on tag with 7/8 in. grommet can be padlocked to device to help prevent unauthorized removal

Legend	Qty./Card	Cat. No.
Do Not Operate	5	44-840
Do Not Operate (striped)	5	44-841

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

Safety Lockout Hasps

Jaw Diameter	Qty.	Cat. No.
1 in.	3	44-800
1 in.	50	44-1800
1-1/2 in.	2	44-801

Labeled Safety Lockout Hasps

Legend	Color	Qty.	Cat. No.
Do Not Operate	Blue	1	44-790
Do Not Operate	Red	1	44-791
Do Not Operate	Red	50	44-1791

Lockout Signs

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

OSHA Regulation Signs



Legend	Material	Size (In.)	Cat. No.
OSHA Regulation	Self-sticking polyester	3-1/2 x 10	44-877
OSHA Regulation — Bilingual	Self-sticking polyester	7 x 10	44-878
Lockout Safety Center	Acrylic	6H x 9W x 4D	44-885
Lock Out Before Servicing	Self-sticking polyester	2-1/4 x 4-1/2	44-884
Notice in Accordance with OSHA	Fiberglass	20 x 14	44-887

Magnetic Danger Signs



Legend	Material	Size (In.)	Cat. No.
Danger — Breakers Locked Out	Magnetic	5 x 7	44-890
Danger — Equipment Being Serviced Do Not Operate	Magnetic	5 x 7	44-891

Safety Signs



- Resistant to both chemicals & abrasion — protected graphics for indoor & outdoor use

Legend	Material	Size (In.)	Cat. No.
Electrical and Other Danger Signs			
Danger — High Voltage	Fiberglass	10 x 14	44-862
Danger — High Voltage	Self-Sticking Polyester	7 x 10	44-863
Danger — High Voltage — Keep Out	Fiberglass	10 x 14	44-880
Danger — High Voltage — Keep Out	Self-Sticking Polyester	7 x 10	44-881
Danger High Voltage — Spanish	Self-Sticking Polyester	7 x 10	44-865
Danger High Voltage — Bilingual	Fiberglass	20 x 14	44-882

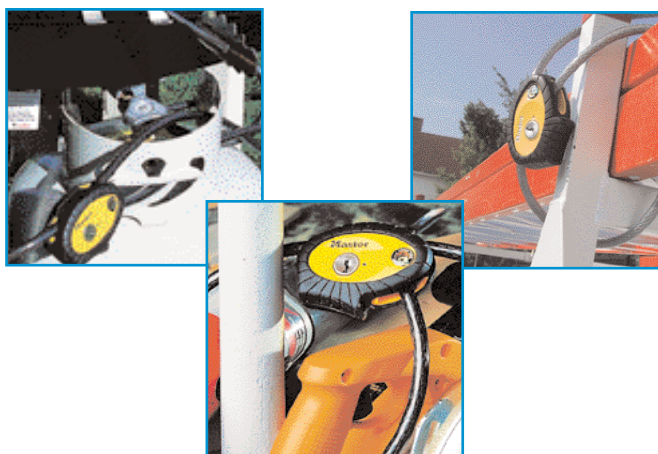
Python™ Adjustable Locking Cable

Python™ Adjustable Locking Cable secures anything within its grasp. It's the only locking cable that is always the right length for your application. This exclusive, patented product holds the flexible steel cable tight at any position for infinite possibilities.



- Infinite Locking Positions — The patented lock holds the cable tight at any position from 1 ft. (30cm) to 6 ft. (1.8m)
- Application Flexibility — Interchangeable cables
- Keyed Alike Convenience — Rekeyable cylinder
- Cut Resistance — 3/8 in. (10mm), 100% steel braided cable
- Weather Tough — Rust resistant aluminum lock body
- Scratch Resistant — Vinyl cable sleeve and lock body bumper

Other Applications: Bikes, lawn furniture, lawn mowers, job sites, canoes, boats, skis, snowboards, generators, pickup truck cargo, spare tire locks and much more.



Description	Cat. No.
Master Lock Python Kit with 6 ft. Cable-keyed different	44-990
Master Lock Python Kit with 6 ft. Cable-keyed alike	44-991
12 ft. (3.7m) x 3/8 in. (10mm) Cable for Python Lock	44-992

Pro-Series® Shackless Lock and Hasp

- Ideal for vans, trucks, gates and vending
- Defeats attempts to pry and cut
- Hardened solid steel lock body withstands forcible attacks
- Complete with high security 6-pin Pro Series® Cylinder



Description	Cat. No.
Hidden Shackle Solid Steel Padlock	44-994
Solid Steel Hasp for use with 44-994	44-993





Multimeter Selection Guide

	320 Series			350 Series			360		490		600 Series				610	
MULTIMETER SELECTION GUIDE	61-320	61-322	61-324	61-350	61-352	61-354	61-360	61-361	61-494	61-495	61-602	61-603	61-605	61-609	61-610	61-614
MEASUREMENT FUNCTIONS																
AC & DC Voltage	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AC Current		•	•		•	•	•	•	•	•				•		
DC Current	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
Resistance	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LV Resistance									•	•						
Audible Continuity	•	•	•	•	•	•	•	•	•	•			•	•	•	•
Diode Test	•	•	•	•	•	•	•	•	•	•	•	•	•			
Capacitance	•	•	•		•	•		•	•	•						
Frequency	•	•	•		•	•		•	•	•						
Temperature									•	•						
Duty Factor									•	•						
Battery Test											•				•	•
Decibels									•	•						
Phase Rotation								•								
FEATURES																
Display Type (Digital or Analog)	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	A
True RMS		•	•			•		•	•	•						
Auto/Manual Ranging	•	•	•	•	•	•			•	•			•	•		
Data Hold/Auto Hold	D	D	D	D	D	D	D		A	A			D	D	D	
Max Hold							•									
Peak Hold	•	•	•						•	•						
Min/Max	•	•	•		•	•								•		
Min/Max/Avg									•	•						
Peak Min/Max	•	•	•						•	•						
Relative Mode	•	•	•						•	•						
High/Low Limits																
High Speed Analog Bar Graph	•	•	•						•	•						
Auto Power Off	•	•	•	•	•	•	•	•	•	•			•	•		
Backlight			•						•	•						
Low Battery Indication	•	•	•	•	•	•	•	•	•	•	•	•	•			
Non-Contact Voltage				•	•	•										
Dual Display									•	•						
Overload Protection on All Ranges	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Data Logging									•	•						
Data Acquisition			•						•	•						
Memory Storage & Recall									•	•						
Optical RS-232 Interface			•						•	•						
Optional ProVision™ Software*			•						•	•						
Warranty (years)**	L	L	L	L	L	L	L	L	L	L	2	2	2	2	2	2
CERTIFICATIONS																
UL 61010 Listed	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
cUL or CSA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CAT III Rating				•	•	•	•	•	•	•			•		•	•
CAT IV Rating	•	•	•													
CE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

*Software and Optical RS-232 Interface Cable come standard with this model

** L = Lifetime Limited Warranty

PlatinumPro®

Contractor-Grade Multimeters

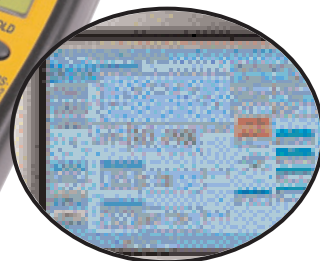
Features

- AC/DC voltage
- Capacitance
- Frequency
- Auto/manual ranging
- Peak min/max
- Max/min
- Relative mode
- Data hold
- Low battery indicator
- Auto power off



61-324

True RMS, AC/DC current, backlight data acquisition and RS-232 interface



Data acquisition and analysis with 320 ProVision™ software for 324. See page E-33 for information.

61-322

True RMS, AC/DC current



61-320



Accessories

Includes	
Premium Test Leads w/Alligator Clips	TL-100
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-32)	
Magnetic Strap	61-565
ProVision™ Software	61-904
RS-232 Cable	61-905

320 Series Specifications		61-320	61-322	61-324
	RANGE & RESOLUTION	BASIC ACCURACY		
AC VOLTAGE	400.0m/4.000/40.00/400.0/750 V	0.9%	1.2%	1.2%
DC VOLTAGE	400.0m/4.000/40.00/400.0/1000 V	0.5%	0.5%	0.5%
AC CURRENT	400.0μ/4000μ/40.00m/400.0m A	—	1.5%	1.5%
DC CURRENT	400.0μ/4000μ/40.00m/400.0m A	1.0% (μA range only)	1.0%	1.0%
RESISTANCE	400.0/4.000k/40.00k/400.0k/4.000M/40.00M Ω	0.7%	0.7%	0.7%
CAPACITANCE	4.000n/40.00n/400.0n/4.000μ/40.00μ/400.0μ/4.000m/40.00m F	2.0%	2.0%	2.0%
FREQUENCY	4.000k/40.00k/400.0k/4.000M/40.00M Hz	0.01%	0.01%	0.01%



Optional magnetic strap frees up your hands to help you work safe.



PlatinumPro®

Industrial-Grade Multimeters

Features

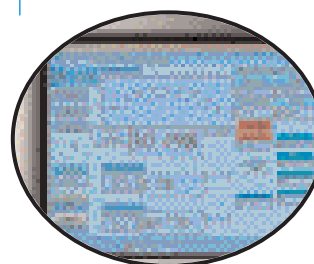


- True RMS
- Data acquisition
- Data logging
- Data storage
- Frequency
- Capacitance
- Temperature
- Low voltage Ω
- Duty factor
- dBm/dB
- Auto/manual ranging
- Dual display
- Analog bar graph
- Auto power off
- Peak hold
- Min/max/avg
- Relative mode
- 20,000 count high resolution mode
- Backlight
- Low battery indication



61-495

Data logging (40,000 records), thermocouple, software and cable interface included



Data acquisition and analysis with 490 ProVision™ software. See page E-33 for information.



61-494

Data logging (6,000 records)

Accessories

Includes	
Carrying Case	C-290
Premium Test Leads with Alligator Clips	TL-100
Optional	
Current Clamp Adapters (page E-32)	
Magnetic Strap	61-565
ProVision™ Software*	61-900
RS-232 Cable*	61-902

*Included with 61-495

490 Series Specifications		61-494	61-495
	RANGE & RESOLUTION	BASIC ACCURACY	
AC VOLTAGE	20.000m/200.00m/2.0000/20.000/200.00/750.0 V	0.7%	0.7%
DC VOLTAGE	20.000m/200.00m/2.0000/20.000/200.00/1000.0 V	0.06%	0.06%
AC CURRENT	20.000m/200.00m/2.0000/10.000 A	0.1%	0.1%
DC CURRENT	20.000m/200.00m/2.0000/10.000 A	0.3%	0.2%
RESISTANCE	200.00/2.0000k/20.000k/200.00k/2.0000M/20.000M/200.00M/2.0000G Ω	0.6%	0.6%
LV RESISTANCE	2.0000k/20.000k/200.00k/2.0000M/20.000M/200.00M Ω	0.3%	0.3%
CAPACITANCE	4.000n/40.00n/400.0n/4.000μ/40.00μ/400.0μ/4.000m/40.00mF	0.9%	0.9%
FREQUENCY	20.000/200.00/2.0000k/20.000k/200.00k/1.0000M Hz	0.01%	0.01%
DUTY FACTOR	20% - 80%	1.0%	1.0%
TEMPERATURE	-150° F to 2200° F (-100° C TO 1200° C)	0.1%	0.1%



61-350 Series Meters

Features

- AC/DC voltage
- Auto/manual ranging
- Non-contact voltage (80-600VAC)
- Resistance
- Audible continuity
- Diode test
- Data hold
- Low battery indicator
- Auto power off



61-350



61-352

AC/DC current,
frequency,
capacitance, max/min



61-354

TRMS, AC/DC current,
frequency, capacitance,
max/min

350 Series

350 Series Specifications	61-350		61-352		61-354	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	200.0m/2.000/20.00/200.0/750V	1.5%	200m/2/20/200/750 VAC	1.5%	200m/2/20/200/750 VAC	1.5%
DC VOLTAGE	200.0m/2.00/20.00/200.0/1000V	0.5%	200m/2/20/200/1000 VDC	0.5%	200m/2/20/200/1000 VDC	0.5%
AC/DC CURRENT	—	1.5%	2.000A/10.00 A	1.5%	2.000A/10.00 A	1.5%
RESISTANCE	200/2k/20k/200k/2M/20M Ω	0.7%	200/2k/20k/200k/2M/20M Ω	0.7%	200/2k/20k/200k/2M/20M Ω	0.7%
CAPACITANCE	—	2.0%	2.00μ-200.0μ/2.000m F	2.0%	2n-200μ/2.000m F	2.0%
FREQUENCY	—	0.01%	2k/20k/200k/2M/20M Hz	0.01%	2k/20k/200k/2M/20M Hz	0.01%



Accessories

Includes	
Premium Test Leads w/Alligator Clips	TL-100
Optional	
Carrying Case	C-290
600A AC/DC Clamp Adapter	61-334
Current Clamp Adapters	61-451
Magnetic Strap	61-565



Optional magnetic strap
frees up your hands
to help you work safe.



Each multimeter
has a non-contact
voltage indicator
feature.

Test-Pro® Contractor-Grade Multimeters

Features



- AC/DC voltage
- AC/DC current
- Resistance
- Audible continuity
- Manual ranging
- Rugged construction
- Auto power off
- Low battery indication



61-361

True RMS,
phase rotation,
capacitance,
frequency



61-360

Max hold,
data hold

Accessories

Includes	
Standard Test Leads	TL-58
Alligator Clip Lead	K-7515
Optional	
Carrying Case	C-290
Current Clamp Adapters (page E-34)	

360 Series Specifications		61-360	61-361
	RANGE & RESOLUTION	BASIC ACCURACY	
AC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	1.0%	2.0%
DC VOLTAGE	200.0m/2000m/20.00/200.0/600 V	0.5%	1.2%
AC CURRENT	2.000 A	1.5%	3.0%
DC CURRENT	2.000 A	1.0%	2.5%
RESISTANCE	200.0/2.000k/20.00k/200.0k/20.00M/200.0M Ω	1.0%	1.0%
CAPACITANCE	20.00μ/200.0μ/2.000m/20.00m F	—	4.0%
FREQUENCY	10.0-100.0k Hz	—	0.50%
PHASE ROTATION		—	80-500V (50-500Hz)



600 Series Pocket Meters

Features

- Low cost, multi-function
- Convenient pocket size
- Built-in test stand
- Overload protection on all ranges
- 2-year warranty



61-605

Audible continuity, auto power off, test lead storage



61-603

Battery test, low battery indication



61-602
Large display



61-609

Auto/manual ranging, auto power off



600 Series Specifications		61-602		61-603		61-605		61-609	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	
AC VOLTAGE	200.0/600 V	2.5%	200.0/500 V	1.0%	200.0m/2.000/20.00 200.0/600 V	4.0%	400.0m/4.000/40.00/ 400.0/750 V	1.3%	
DC VOLTAGE	200.0m/2.000/ 20.00/200.0/600 V	2.0%	2.000/20.00/ 200.0/1000 V	0.5%	200.0m/2.000/20.00/ 200.0/600 V	2.0%	400.0m/4.000/40.00/ 400.0/1000 V	1.0%	
RESISTANCE	200.0/2.000k/20.00k/ 200.0k/2.000M/20.00M Ω	1.5%	200.0/2.000k/20.00k/ 200.0k/2.000M Ω	0.8%	200.0/2.000k/20.00k/ 200.0k/2.000M/20.00M Ω	3.0%	400.0/4.000/40.00/400.0k/ 4.000/40.00M Ω	0.8%	



Analog Multimeters

Features



- Multi-color analog display with mirrored scale
- High-impact thermoplastic case
- Battery test
- 2-year warranty

61-614
Audible continuity,
built-in stand



61-610
Pocket size,
diode protected



610 Series Specifications		61-610	61-614
	RANGE & RESOLUTION	ACCURACY	ACCURACY
AC VOLTAGE	10/50/250/500 V	+/- 4.0% Full Scale	10/50/250/1000 V
DC VOLTAGE	10/50/250/500 V	+/- 3.0% Full Scale	2.5/10/50/250/1000 V
DC CURRENT	500 μ /50m/250m A	+/- 3.0% Full Scale	5m/50m/500m/20 A
RESISTANCE	1 M Ω Full Scale 5 k Ω Mid Scale	+/- 3.0% Arc Length	10k/100k/10M Ω Full Scale 50/500/50k Ω Mid Scale
DECIBELS	-20 to +56 dB		-8 to +62 dB
BATTERY TEST	—		1.5 , 9.0 VDC



Clamp Meter Selection Guide

CLAMP METER SELECTION GUIDE	61-452	700 Series			61-710	730		760 Series			770	
		61-701	61-702	61-704		61-732	61-736	61-764	61-766	61-768	61-772	61-774
MEASUREMENT FUNCTIONS												
AC Voltage	•	•	•	•	•	•	•	•	•	•	•	•
DC Voltage		•	•	•		•	•	•	•	•	•	•
AC Current	•	•	•	•	•	•	•	•	•	•	•	•
DC Current										•		•
Resistance	•	•	•	•	•	•	•	•	•	•	•	•
Audible Continuity	•	•	•	•		•	•	•	•	•	•	•
Diode Test		•	•	•								
Capacitance		•	•	•					•			•
Frequency		•							•			
Temperature												
Leakage Current	•											
FEATURES												
Display Type (Analog or Digital)	D	D	D	D	A	D	D	D	D	D	D	D
AC Current Capacity	60	200	200	200	600	400	400	600	600	600	1000	1000
DC Current Capacity										600		1000
True RMS				•			•		•	•	•	•
Auto/Manual Ranging						•	•	•	•	•	•	•
Data Hold	•	•	•	•		•	•	•	•	•	•	•
Max Hold		•	•	•								
Peak Hold								•	•	•	•	•
Min/Max	•							•	•	•	•	•
DCA Zero										•		•
Pointer Lock					•	•						
High Speed Analog Bar Graph	•							•	•	•	•	•
Auto Power Off	•	•	•	•		•	•	•	•	•	•	•
Non-Contact Voltage Indication		•	•	•		•	•					
Harmonics Indicator			•	•								
Vibration Mode			•	•								
Analog Output												
Backlight				•				•	•	•	•	•
Low Battery Indication	•	•	•	•		•	•	•	•	•	•	•
High Voltage Warning		•	•	•				•	•	•	•	•
Overload Protection	•	•	•	•		•	•	•	•	•	•	•
Conductor Size - Inches (mm)	1.18" (30)	1.3" (33)	1.3" (33)	1.3" (35)	1.18" (30)	1.25" (32)	1.25" (32)	1.42" (36)	1.42" (36)	1.42" (36)	2.0" (51)	2.0" (51)
Warranty* (years)	L	L	L	L	5	L	L	L	L	L	L	L
CERTIFICATIONS												
UL 61010 Listed		•	•	•		•	•	•	•	•	•	•
cUL or CSA		•	•	•		•	•	•	•	•	•	•
CAT III Rating		•	•	•		•	•	•	•	•	•	•
CAT IV Rating								•	•	•	•	•
CE	•	•	•	•	•	•	•	•	•	•	•	•

*L = Lifetime Limited Warranty

4-in-1 Test Tool

Features



- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Capacitance
- Low battery indication
- Overload protection on all ranges
- Integral lead storage
- Audible dangerous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head

61-704

True RMS, backlight, vibration mode to verify AC voltage, harmonics indicator, max hold, CAT III - 1000V



200 Amp Clamp/Multimeter

Use it for testing a variety of electrical parameters on branch circuits or at receptacles.



Non-Contact Voltage Tester

Use it for one-touch indication of power without test leads.



Voltage Tester with Shaker

Use it for tactile feel of AC voltage.



Harmonics Tester

Use it to ensure that a circuit contains clean power, free of harmonic distortion.

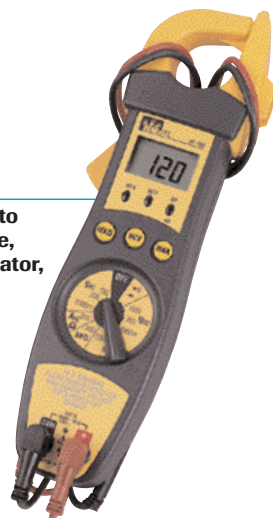


61-701

Frequency, data hold, max hold, CAT III - 600V

61-702

Vibration mode to verify AC voltage, harmonics indicator, max hold, CAT III - 1000V



Accessories

Includes	
Carrying Case	C-700
Silicone Test Leads	TL-102

700 Series Specifications		61-701	61-702 & 61-704	
	RANGE & RESOLUTION	BASIC ACCURACY	RANGE & RESOLUTION	BASIC ACCURACY
AC VOLTAGE	200.0/600 V	1.2%	2000m/200.0/750 V	1.2%
DC VOLTAGE	20.00/200.0/600 V	0.5%	2000m/200.0/1000 V	0.5%
AC CURRENT	200.0 A	3.0%	200.0 A	3.0%
RESISTANCE	200.0/200.0k Ω Scale	1.0%	200.0/200.0k Ω	1.0%
CAPACITANCE	200.0μ F	3.0%	200.0μ F	3.0%
FREQUENCY	2.000k/20.00k/40.00k Hz (Auto)	0.1%	—	—

Jaw opening is 1.3" (33mm).



400 Amp Clamp Meters

Features



- Measures up to 400AAC
- Non-contact voltage indicator (70V-600VAC)
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator

Tapered jaws with hook tip for easy wire separation

Convenient one-touch non-contact voltage indication

Data hold button conveniently located for thumb

Auto/manual ranging

Easy-to-read large numbers and symbols

61-732



61-736
True RMS



Accessories

Includes	
Carrying Case	C-90
Standard Test Leads	TL-58

730 Series Specifications		61-732	61-736
	RANGE & RESOLUTION	BASIC ACCURACY	
AC CURRENT	40.00/400.0 A	1.7%	1.7%
AC VOLTAGE	400.0/600 V	1.2%	1.2%
DC VOLTAGE	400.0/600 V	0.5%	0.5%
RESISTANCE	400.0/4.000k/ 40.00k 400.0k/4.000M/40.00M Ω	1.0%	1.0%

Jaw opening is 1.25" (32mm).



Compact jaw for use in tight locations.



600 Amp Clamp Meters w/TightSight™ bottom display

Features

- Measures up to 600AAC
- Voltage-presence warning on all lead functions
- Bright, bold backlit display
- Tapered jaws with hook tip
- Max/min
- Peak max/min (1ms)
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator



Audible and visual high voltage indication over 30V AC/DC on all functions

Contains all the capabilities of a full-function multimeter

One-touch backlight button for glowing green display illumination

Tapered jaws with hook tip for tight locations and easy wire separation

Data hold button and offset thumb wheel for one-handed operation

Large numbers and symbols are easy-to-read

Patented backlit TightSight™ display for viewing in dark, bright or tight locations; Hinged rubber cover prevents display damage (field replaceable)

61-764



For Industrial Applications

61-766

True RMS, Capacitance, Frequency measurement via clamp head or leads, 40AAC low range



61-768

600 ADC current measurements, True RMS



Accessories

Includes	
Carrying Case	C-760
Test Leads w/Alligator Clip	TL-104

Safety First!

The complete line of industrial clamps from IDEAL was designed to set a new standard for safety technology. It starts with the revolutionary TightSight™ display. It allows an electrician to keep his head and face out of potentially dangerous panels while viewing the measurement. The high voltage indicator is another feature not to be taken for granted. It indicates the presence of voltage through the test leads even with the dial set to the wrong function. The CAT III and IV ratings, rugged construction and UL listing should give every electrician the confidence to go about the job without worrying about equipment safety.

760 Series Specifications	61-764	61-766	61-768	
	RANGE & RESOLUTION			ACCURACY
AC CURRENT	400.0/600 A	40.00/400.0/600 A	400.0/600 A	1.7%
DC CURRENT	—	—	400.0/600 A	1.5%
AC VOLTAGE	400.0m/4.000/40.00/400.0/750 V			1.2%
DC VOLTAGE	400.0m/4.000/40.00/400.0/1000 V			0.5%
RESISTANCE	400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω			1.0%
CAPACITANCE	—	4.000μ/40.00μ/400.0μ/4.000m F	—	3.0%
FREQUENCY (via clamp head or test leads)	—	0.020k to 0.400k Hz Sensitivity is 20-100 Hz (≥5A), 100-400 Hz (≥10A)	—	0.1%

Jaw opening is 1.42" (36mm).



1000 Amp Clamp Meters w/TightSight™ bottom display

Features



- Measures up to 1000A
- Voltage-presence warning on all lead functions
- Bright bold backlit display
- Tapered jaws with hook tip
- True RMS
- Max/min
- Peak max/min (1ms)
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator



61-774
AC/DC current,
capacitance



Exclusive TightSight™
Display



61-772

Accessories

Includes	
Carrying Case	C-770
Test Leads w/Alligator Clip Lead	TL-104

770 Series Specifications		61-772	61-774	
		RANGE & RESOLUTION		ACCURACY
AC CURRENT		400.0/1000 A		1.7%
DC CURRENT		—	400.0/1000 A	1.5%
AC VOLTAGE		400.0m/4.000/40.00/400.0/750 V		1.2%
DC VOLTAGE		400.0m/4.000/40.00/400.0/1000 V		0.5%
RESISTANCE		400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω		1.0%
CAPACITANCE		—	4.000 μ /40.00 μ /400.0 μ /4.000m F	3.0%

Jaw opening is 2.0" (51mm).



SureTest® Open/Closed Circuit Tracers

Features



- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires
- "0-99" display of signal strength
- Audible intensifies in tone/pitch
- Can be used on circuits 0-600V AC/DC
- Works on energized or de-energized circuits
- Four modes of sensitivity – search high, search low, trace and breaker,
- Peak bar graph
- 2-year warranty

Circuit Tracers

61-954

Standard LED receiver, transmitter, test lead set



61-958

Super bright rotating OLED display receiver, transmitter, test lead set, inductive clamp, battery pack



61-956

Super bright rotating OLED display, transmitter, test lead set



Exclusive Rotating Display

Revolutionary technology in the SureTest® 958 rotates the display in 90° increments so that you always receive an upright reading. Even when the receiver is pointing down, you can keep up.

Transmitter will work on a de-energized circuit and won't affect GFCIs and sensitive equipment on an energized circuit.



AA batteries provide the transmitter and receiver 4x the power.



SureTest® Circuit Tracers



In Breaker Mode
receiver identifies the correct circuit to which the transmitter is connected.



Inductive Clamp
allows you to induce a tracer signal on the cable without affecting the low voltage signals on the circuit.



Sorting Wires
Individual wires can be sorted, opens can be located and shorts can be isolated.



IC-958, BP-958
Inductive Clamp w/ Battery Pack



RC-954
Receiver
Red LED display



RC-958
Receiver
Bright OLED rotating display



TR-958
Transmitter

Kit Components

Kit Contents	61-954	61-956	61-958
Transmitter	TR-958	TR-958	TR-958
Receiver	RC-954	RC-958	RC-958
Tracer Test Lead Set	TL-958	TL-958	TL-958
Inductive Clamp			IC-958
Battery Pack			BP-958
Hard Carrying Case	C-954	C-954	C-958
Batteries	■	■	■
Instruction Manual	■	■	■

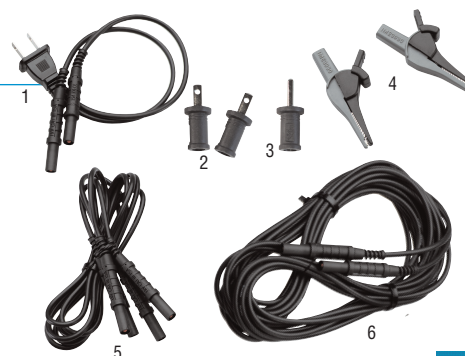
Accessories

Includes	
Fuse – High-energy, Fast-acting, 1A/1000V	F-958
Magnetic Hanging Strip	61-565
Tracer Test Lead Set (includes 1-6 below)	TL-958
1. Outlet Plug Adapter for Transmitter	TLOP-958
2. Blade Prongs for Lead Adapters (2/set)	TLBP-958
3. Ground Prong for Lead Adapter	TLGP-958
4. Alligator Clips for Lead Adapters (2/set)	TLAC-958
5. 3 ft. Lead Adapters for Transmitter (2/set)	TLA1-958
6. 25 ft. Lead Adapter for Transmitter	TLA2-958

SureTest® Circuit Tracer Specifications

Transmitter:	
Operating Voltage	0 - 600V AC/DC
Battery Power	1.5V x (4) AA batteries (NEDA 15A, IEC LR6)
Battery Life	40 hours open circuit testing/25 hours short circuit tracing
Indicators	On/Off, Line energized, low battery
Receiver:	
Sensing	Magnetic
Battery Power	1.5V x (3) AA batteries (NEDA 15A, IEC LR6)
Battery Life	20 hours

TL-958
Test Lead Kit



Combo Cases™

Features

- Top selling tools in rugged cases
- Unmatched value
- Large storage compartments



61-2000

Tester Combo Case™ Includes:
 #61-086 Vol-Con® XL Voltage Tester
 #61-534 Circuit Breaker Finder
 #61-063 Non-Contact Voltage Tester



61-2001

Meter Combo Case™ Includes:
 #61-350 Multimeter
 #61-732 400 Amp Clamp



61-2002

Clamp Combo Case™ Includes:
 #61-766 TightSight™ Clamp Meter
 #61-521 Phase Rotation Tester

Analog Clamp Meters

Features

- Analog display
 - Pointer lock
 - 2-year warranty
- Includes carrying case



61-710

600AAC current, Ohms scale on dial drum, broad frequency response (50 to 400 Hz)

Clamp Meters

710 Series Specifications 61-710		
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	150/300/600 V	3.0% F.S.
DC VOLTAGE	—	—
AC CURRENT	6/20/60/200/600 A	3.0% F.S.
RESISTANCE	2k Ω	3.0% F.S.
TEMPERATURE	—	—



Leakage Current Clamp Meter

Features

- 40mA to 60AAC current capability
 - Data hold
 - Analog bar graph
 - Min/max
- Includes carrying case



61-452

Current Clamp Specifications 61-452		
	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	400.0 V	1.5%
AC CURRENT	40.00/400.0m/4.000/40.00/60.0 A	2.0%
RESISTANCE	400.0 Ω	1.0%



Features

- Ground resistance measurements
- Auto ranging
- Auto power off
- 2-year warranty



61-788

MEGGER® 3-Pole Meter
2- & 3-point fall of potential methods, easy single push-button operation, includes terminal shorting bars, rugged weatherproof construction, optional lead set (61-798) not included



61-920

Ground Resistance Clamp Meter

Large clamp size, backlight, saves up to 99 measurements



61-789

MEGGER® 4-Pole Meter
3- & 4- fall of potential methods, soil resistivity, easy single push-button operation, includes terminal shorting bars, rugged weatherproof construction, optional lead set (61-798) not included.



61-798

MEGGER® Earth Resistance Lead Set Kit

Kit includes four silicone test leads with alligator clips (3, 15, 30, 50m), 20 in. auxiliary grounding rods (2 pr.) and padded nylon carrying case

Specifications	61-920		61-788		61-789	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
GROUND RESISTANCE	0/120/1200Ω	1.5%	200.0/2.00kΩ	2.0%	400.0/600/1500 Ω	2.0%
GROUND LEAKAGE CURRENT	100m/1000m/15/30 A	2.0%	—	—	—	—
SOIL RESISTIVITY	—	—	—	—	20.00/200.0/2.000k/20.00kΩ	2.0%

MEGGER® is a registered trademark of Megger, Inc.
*Clamp accommodates conductor size up to 1.25 in. (32mm).



Features



- Checks new installations for proper insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty



61-791

MEGGER® Hand-held Insulation Tester

Test voltage: 250/500/1000V, test inhibition >25V, default voltmeter to 600V AC/DC, digital display with analog arc, auto discharge, auto power off, auto ranging, protective rubber boot, continuity, low battery indication, Cat III – 300V, includes carrying case



61-792

MEGGER® 5kV Insulation Tester

500V/1000V/2500V/5000V test voltages, battery or hand-crank operation, auto discharge, AC/DC voltage to 600V, battery test, Cat III-300V, includes carrying case

Insulation Tester Specifications				
	61-791		61-792	
	RANGE & RESOLUTION	ACCURACY	RANGE & RESOLUTION	ACCURACY
TEST VOLTAGE	250/500/1000 V		500/1000/2500/5000 V	
INSULATION RESISTANCE	999M Ω	3.0%	100k - 20G Ω	5.0%
CONTINUITY	0.01-100 Ω	3.0%		

MEGGER® is a registered trademark of Megger, Inc.



The IDEAL Power Quality Analyzer is a versatile and easy-to-use tool that will give you the information you need to get the job done. The unit measures and analyzes power quality on both single- and three-phase electrical systems. Instantaneous readouts of current, voltage, power and harmonics including tables, bar graphs and even individual waveforms, make job site data interpretation easy. With a real-time clock and 1MB of memory, the Power Analyzer stores data that can be downloaded to a personal computer for in-depth analysis using PowerVision™ software.

It's everything a professional needs for monitoring and analysis in a single unit: rugged, versatile and easy to use. Models available with 3 or 4 current channels to meet your needs and budget.

3-Phase Power Analyzer

Features

- True RMS
- Single- or three-phase measurements
- Data logging (1MB memory)
- Up to one month of recording time
- 4-channels for voltage measurements
- 4-channels for current measurements*
- Auto ranging
- Min/max/avg
- Energy and Harmonics Program
- PowerVision™ Software
- Lightweight, portable design
- Easy-to-use push-button operation
- Backlit display
- Customized data collection
- 2-year warranty
- Optional FIFO memory
- Real-time clock
- Programmable trigger-points and start/stop time
- Intelligent battery charging system
- Easy set-up
- Interactive demo CD

Power & Energy Measurements

- Kilowatts (KW)
- Volt-amperes (VA)
- Inductive reactive power (kvarL)
- Capacitive reactive power (kvarC)
- Power factor (PF)
- Frequency
- Kilowatt hours (kWh)
- Reactive power per hour (kvarhL, kvarhC)

Harmonics Measurements

- Total harmonic distortion (% THD)
- Harmonic factorization (FFT) to 51st harmonic

**Model 805 equipped with three channels for current*



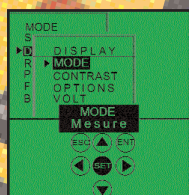
Accessories

1000AAC clamps (set of 3)	61-811
100AAC neutral clamp (1)	61-813
5AAC compact current clamp (blue)	61-814
2000AAC clamps (set of 3)	61-810
500AAC clamps (set of 3)	61-812
5AAC compact clamps (set of 3)	61-819
100AAC compact clamps (set of 3)	61-820
100AAC compact current clamp (blue)	61-821
200/2000/20000AAC Flexible clamp adapters (set of 3)	61-457

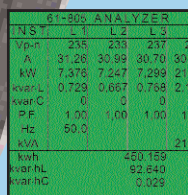
Power Analyzer Specifications 61-805, 61-806, 61-807

	RANGE & RESOLUTION	ACCURACY
AC VOLTAGE	20 to 600 V (phase-neutral) 20 to 866 V (phase-phase)	0.5% 0.5%
AC CURRENT	10 to 1000 A (with supplied clamp adapters)	1.0%
ACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
REACTIVE POWER	866 kW (with supplied clamp adapters)	1.0%
POWER FACTOR	0.5 to 1.0	1.0%

Power Analyzer Display Screens



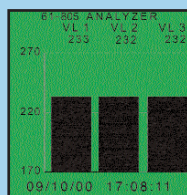
Program Setup



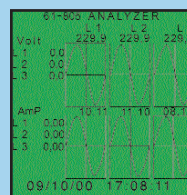
Table



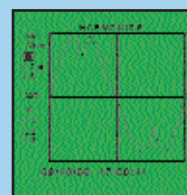
Exploded View



Bar Graph



Scope View



Waveform Zoom

Standard Equipment

800 Series



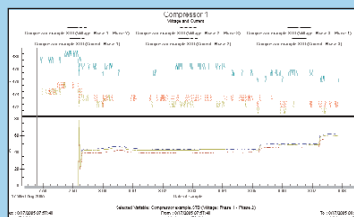
Standard Equipment	61-805	61-806	61-807
1000AAC Clamps (61-811)	•	•	•
100AAC Neutral Clamps (61-813)			•
Voltage leads with Alligator Clips (TL-806)	•	•	•
Power supply with RS-232 Interface and cables	•	•	•
PowerVision™ Analysis Software	•	•	•
Demonstration CD and Instructions	•	•	•
Protective Carrying Case	•	•	•



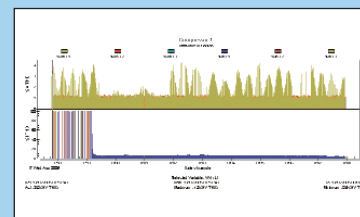
PowerVision™ Software

PowerVision™ software provides intuitive analysis of data and automatic generation of useful tables and graphs. Files are easily downloaded from any 800 series unit.

PowerVision™ provides multiple ways to view basic and detailed information, allowing you to customize readouts according to your trouble shooting needs. Compare up to 12 variables simultaneously. Easily scroll through, expand and collapse data over time. Compare data from multiple files to show before and after studies. Data can be exported to text files, databases, graphs and tables can be pasted into Excel or Word reports. Highly-trained technical support people are always a phone call away.



Current and Voltage



Harmonic Distortion

SureTest® Circuit Analyzers

Features



- Super-bright display
- High accuracies
- Measures voltage drop under full load*
- True RMS
- Line voltage
- Peak voltage
- Frequency
- Ground to neutral voltage
- Ground impedance
- Hot and neutral conductor impedances
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Tests GFCIs and EPDs for proper operation
- Conducts testing without disturbing sensitive loads
- Verifies isolated grounds (with 61-176 adapter)
- 2-year warranty

*12A, 15A, 20A load tests



61-165

Tests AFCIs for proper operation, tests for shared neutrals

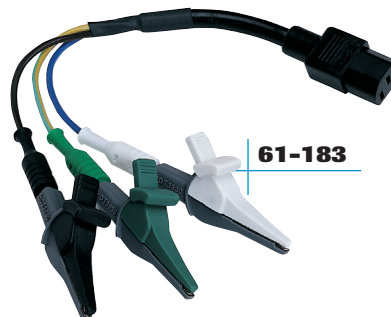


61-164



Accessories

Includes	
Carrying Case	61-179
1' Extension Cord	61-182
Optional	
Ground Continuity Adapter	61-175
Isolated Ground Adapter	61-176
Alligator Clip Adapter	61-183



61-183

SureTest® 160 Series Specifications

	RANGE & RESOLUTION	BASIC ACCURACY
AC VOLTAGE	85.0 - 265.0 VAC	1.0%
FREQUENCY	45.0 - 65.0 Hz	1.0%
IMPEDANCE	0.00 - 1.99 Ω	5.0%
GROUND-NEUTRAL VOLTAGE	0.0 - 24.0 VAC	2.0%
% VOLTAGE DROP 12A, 15A, 20A load tests	0.1% - 50.0%	5.0%
GFCI TEST CURRENT Times out after 6.5 seconds	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%



Circuit Identifiers

Features

- Fully automatic operation
- Positively identifies circuit breakers and fuses without service interruption
- Self calibrating
- Visual and audible indicators
- 2-year warranty



61-534

Circuit Identifier with Digital Receiver

Microprocessor controlled sensitivity level, verifies proper wiring, checks GFCI operation, non-contact voltage, works on 120 and 240V circuits



61-532

Circuit Identifier with Analog Receiver



61-184

Alligator Clip Adapters

Accessories

Optional	
Carrying Case	C-290
Alligator Clip Adapters	61-184
Alligator Clip Adapters	61-560

Circuit Identifier Specifications

	61-532	61-534
OPERATING VOLTAGE	100 - 140 VAC	100 - 250 VAC
OPERATING FREQUENCY	47 - 63 Hz	47 - 63 Hz



61-560

Alligator Clip Adapters

SureTest® Arc Circuit Tester

Features

- Tests AFCIs for proper operation
- Tests GFCIs for proper operation
- Tests for shared neutrals
- Verifies wiring configuration
- Compact size fits comfortably in pocket
- 1-year warranty

Accessories

Optional	
1' Cord Adapter	61-177
Alligator Clip Adapter	61-184
Carrying Case with Belt Clip	C-50



61-058

SureTest® Arc Circuit Tester
Tests AFCI/GFCI devices for proper operation



C-50

Carrying Case



61-184

Alligator Clip Adapter

E-Z Check® Circuit Testers

Features

- Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot, and ground fault interruption in 3-wire, 125VAC circuits
- No-slip ergonomic design maximizes comfort
- Premium neon lamps prevent false readings
- Tough, impact-resistant case
- Tests GFCI receptacles for proper operation
- 5-year warranty



61-051

E-Z Check® Plus GFCI Circuit Tester
Tests GFCI receptacles for proper operation



61-035

E-Z Check® Circuit Tester



Receptacle Testers

Features

- Warns against faulty wiring in 3-wire receptacles
- For use on 125VAC circuits
- 1-year warranty



61-501

GFCI Receptacle Tester
Tests GFCI receptacles for proper operation



61-500

Receptacle Tester



Vol-Con® Elite Voltage Testers

Features



- Digital circuitry for better resolution
- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Audible continuity
- Non-contact voltage indication
- Low impedance to eliminate ghost voltages
- Replaceable silicone test leads
- Integral lead storage
- 2-year warranty

Accessories

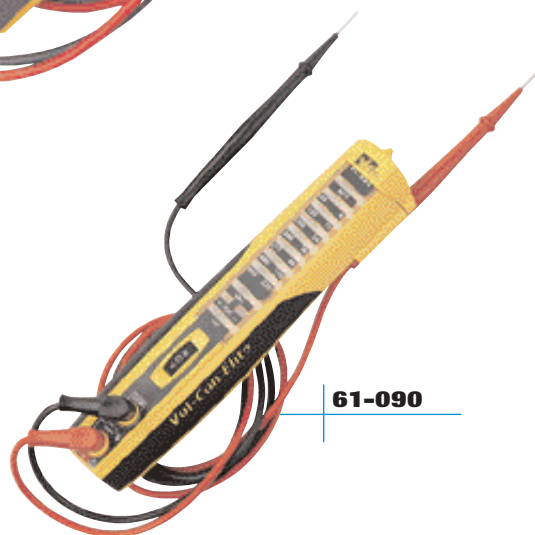
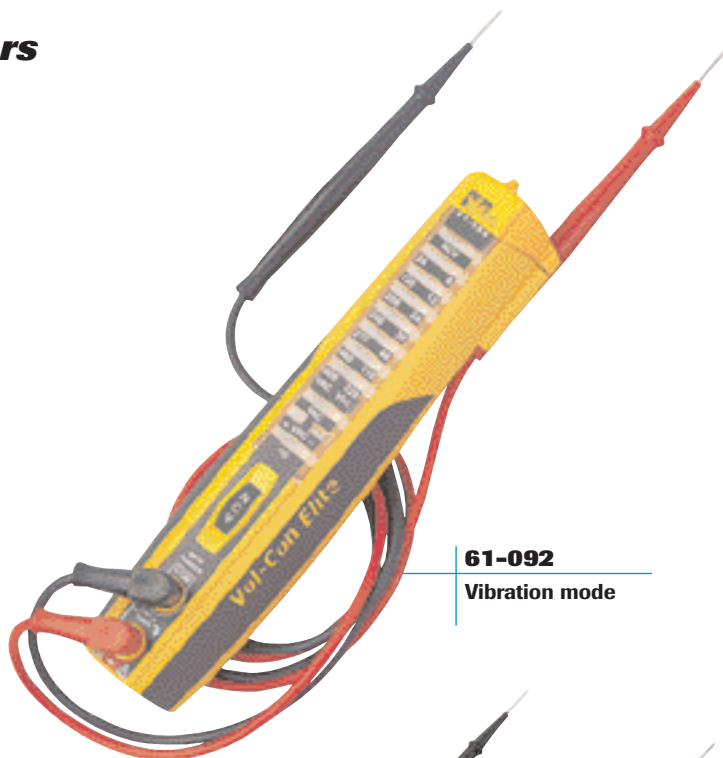
Includes	
Silicone Test Leads	TL-102
Optional	
Carrying Case	C-90



Vibration mode gives a tactile indication of the voltage level.



Non-contact voltage sensor easily locates breaks in power cords.



Solenoid Voltage Testers

Features

- Extremely rugged and reliable
- Vibrates when voltage is present
- Tests for AC Voltage
- Tests for DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- 5-year warranty

Accessories

Includes	
Standard Test Leads	61-070
Optional	
Resistor-fused Leads*	61-072
Padded Nylon Case	C-90
Standard Leather Case	61-010
Premium Leather Case	61-020

*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.



61-076

Vol-Con® Voltage/Continuity Tester
Automatic switching continuity tester, tests from 5-600V AC/DC



61-065

Vol-Test® Voltage Tester
Tests from 80-600V AC/DC



XL-Series Solenoid Voltage Testers

Features



- Extremely rugged and reliable tester
- Vibrates when voltage is present
- Tests AC/DC Voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator
- Dual voltage indication for backup safety
- Compact size
- 2-year warranty



61-086

**Vol-Con® XL
Voltage/Continuity
Tester**
Audible continuity,
audible voltage
indication, tests from
6-600V AC/DC

Accessories

Includes	
Standard Test Leads	TL-80
Optional	
Resistor-fused Leads*	TL-82
Padded Nylon Case	C-90
Standard Leather Case	61-010
Premium Leather Case	61-020

*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.



One hand operation makes receptacle testing quick and simple.



61-085

**Vol-Test® XL
Voltage Tester**
Tests from
80-600V AC/DC



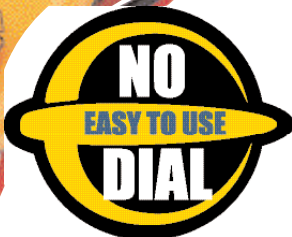
Split-Jaw™ Smart Meter

Features



- Measures 0.1-200AAC*
- Measures 1.3-750VAC
- Measures 0.1-1000VDC
- Measures 0.1-2000Ω
- Audible continuity
- Data hold
- Integral lead storage
- Replaceable test leads
- Auto power off
- Low battery indication
- 2-year warranty

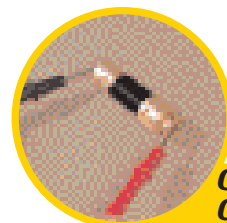
61-096
Split-Jaw™



AC/DC Vol



AC Amps



**Ohms/
Continuity**

AUTOMATICALLY SENSES & DISPLAYS

Accessories

Optional	
Carrying Case	C-90

61-096 Specifications	61-096	
AC VOLTAGE	1.3 - 750 V	1.5%
DC VOLTAGE	1.8 - 1000 V -0.6 - 1000 V	1.0%
AC CURRENT	0.6 - 200.0 A	3.0%
RESISTANCE	0 - 2000 Ω	1.0%

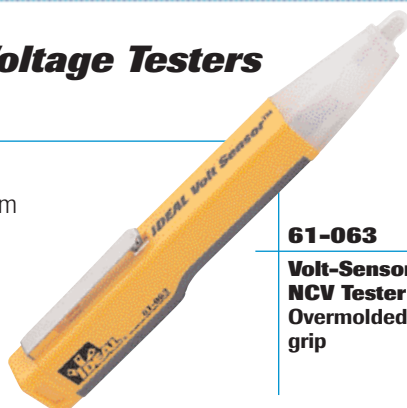
*Note: Jaw opening is 0.6 in. (16mm) - up to 1/0 copper cable



Non-Contact Voltage Testers

Features

- Tests for voltage from 40V to 600VAC
- Audible and visual indication
- Locates breaks along live insulated wires
- Tests for energized circuits
- 1-year warranty



61-063

**Volt-Sensor®
NCV Tester**
Overmolded cushion
grip



C
N12988



61-061

**Powr-Glo™
Audible**



Continuity Tester

Features

- Checks continuity of dead circuits and ground on conduit systems and identifies wires in multi-wire cables
- Light signal indicates completed circuit
- Bulb-in end can serve as flashlight
- Pocket clip functions as probe
- Removable 4-ft. test lead with alligator clip
- 1-year warranty



61-030

Continuity Tester

Circuit Tester

Features

- Industrial-quality tester checks voltage from 80V to 600V AC/DC
- Neon test lamp at front of probe
- Resistors reduce voltage reaching leads
- 24-in. lead – rated 1,000V
- 1-year warranty



61-040

**Test-Glo™ Circuit
Tester**



Twin Lead Tester

Features

- Check voltage from 80V to 500V AC/DC
- Heavy-duty test probes
- 1-year warranty



61-503

**Twin Lead
Tester**



3-Phase/Motor Rotation Tester

Features

- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- Meets IEC-1010 (EN61010) safety requirements
- 2-year warranty

Includes carrying case



61-521

**3-Phase/Motor
Rotation Tester**



Light Meter

Features

- Wide lighting range
- Foot candle and lux measurement
- Remote light sensor
- Cosine and color corrected
- Peak hold
- Digital and analog output
- Compact and lightweight
- Low battery indication
- 2-year warranty

Includes carrying case



61-681

Digital Light Meter



Light Meter Specifications		61-681
	RANGE & RESOLUTION	ACCURACY
FOOT CANDLES	20.00/200.00/2000.0/200000	2%
LUX	20.00/200.00/2000.0/200000	2%

Infrared Thermometer

Features

- 15:1 angle of viewability
- Built-in laser pointer
- Backlit display
- Auto power off
- Measures temperatures from 0° F to 500° F (-18° C to 260° C)
- 2-year warranty

Includes carrying case



61-682

Infrared Thermometer



Specifications		61-682
	RANGE & RESOLUTION	ACCURACY
	0° F to 500° F (-18° C to 260° C)	3.0%

Current Clamp Adapters

Features

- Provide safe, easy measurement of AC current
- Extend the current measurement capabilities of digital multimeters
- AC milli-volt output (1mVAC = 1mA)

61-333
500AAC



61-332
200AAC

61-436
1000AAC
2' lead length



61-334
600A AC/DC
2' lead length



61-451
300AAC



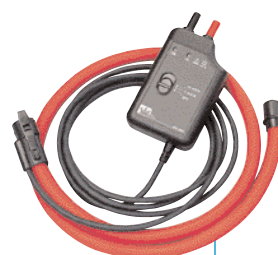
Flexible Clamp Adapters

Features

- Provide safe, easy measurement of high AC currents
- Large opening and flexible materials to wrap around conductors and bus bars
- Shape Memory allows pre-forming before installation
- Extend the current measurement capabilities of digital multimeters



61-330
1000AAC



61-331
300/3000AAC

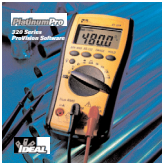
Specifications	61-330	61-331	61-332	61-333	61-334	61-436	61-451
AC CURRENT	1000 A	300/3000 A	200 A	500 A	600 A	1000 A	300 A
DC CURRENT	—	—	—	—	600 A	—	—
OUTPUT SIGNAL	1mV/A	1mV/A/10mV/A	1mV/A	1mV/A	1mV/A	1mV/A	1mV/A
MAX CONDUCTOR SIZE	8" (19cm)	8" (19cm)	0.78" (19.8mm)	1.18" (30mm)	1.125" (28.5mm)	2.25" (57.1mm)	0.91" (23mm)
SENSOR LENGTH	24" (61cm)	36" (91cm)	—	—	—	—	—

ProVision™ Software

The easy-to-use ProVision Software allows users to translate the data into a wide range of graph and table formats for in-depth analysis. It's a valuable resource for both troubleshooting and ISO compliance.

Features

- Creates easy-to-read tables and graphs
- Retrieves data stored in PlatinumPro® meters
- Virtual DMM for real-time viewing of data acquisition
- Export files to a spreadsheet or database for storage and analysis
- Compatible with Windows 98, 2000, NT and XP



61-904

320 Series ProVision™ Software



61-900

490 Series ProVision™ Software



61-901

630 Series ProVision™ Software

RS-232 Cables



61-902

**Optical RS-232
Cable
For 490 and 630
Series Meters**



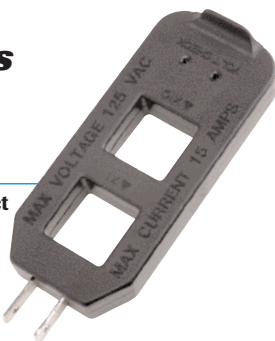
61-905

**Optical RS-232
Cable
For 320 Series
Meters**

Digital Multimeter and Clamp Meter Accessories

61-561

Line splitter with direct and 10x sensitivity



61-565

Magnetic hand strap fits Platinum Pro® and 350 Series Multimeters



Thermocouples

Features

- Measures up to 1500° F (816° C)
- K-type thermocouples plug into digital multimeter or clamp meter voltage ports with 61-465 adapter

61-465

Thermocouple Adapter



61-461

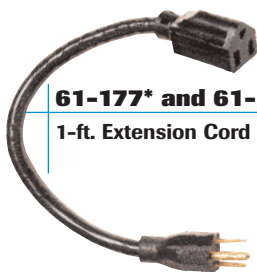
Beaded K-type thermocouple



SureTest® Accessories

61-177* and 61-182**

1-ft. Extension Cord



61-183 and 61-184***

Alligator Clip Adapters



61-175 and 61-176

Ground Continuity and Isolated Ground Adapters, respectively



* For use with 61-058 only

** For use with 61-164/61-165

Carrying Cases



61-010
Leather case for use
with voltage testers



61-445
Small nylon carrying
case with four
convenient pockets



C-50
Nylon carrying case for
SureTest® Arc Testers
w/belt clip



C-290
Nylon carrying case
for use with DMM's



61-179
Nylon carrying case for
use with SureTest®
Circuit Analyzers,
730 Series Clamp
Meters



61-020
Premium leather case
for use with voltage
testers



C-90
Nylon carrying case
for use with all
Vol-Con® and
Vol-Test® Testers



C-700
Nylon carrying case
for use with the 700
Series Clamp Meter



61-447
Large nylon carrying
case with six large
inside pockets and
one zippered outside
pocket

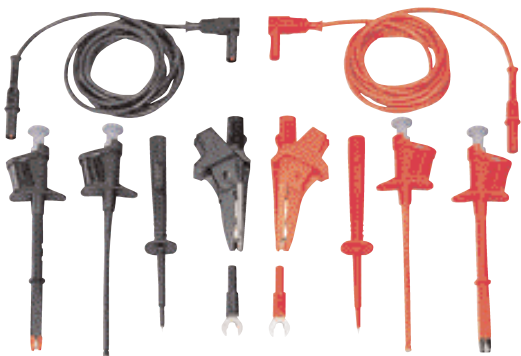
Carrying Case Selection Guide

MULTIMETER CARRYING CASE SELECTION GUIDE	320 Series			350			360		490		600 Series			610		630	
	61-320	61-322	61-324	61-350	61-352	61-354	61-360	61-361	61-494	61-495	61-602	61-603	61-609	61-610	61-614	61-633	61-635
C-290 Nylon Carrying Case	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•

CLAMP METER CARRYING CASE SELECTION GUIDE	61-452	700 Series			730		760 Series			770	
		61-701	61-702	61-704	61-732	61-736	61-764	61-766	61-768	61-772	61-774
61-179 Nylon Carrying Case					•	•					
C-452 Nylon Carrying Case	•										
C-700 Nylon Carrying Case		•	•	•							
C-730 Nylon Carrying Case					•	•					
C-760 Carrying Case							•	•	•		
C-770 Nylon Carrying Case										•	•

TESTER CARRYING CASE SELECTION GUIDE		Voltage Testers								SureTest®				
		61-058	61-065	61-076	61-085	61-086	61-090			61-092	61-164			
61-010	Leather Tester Case		•	•										
61-020	Premium Leather Tester Case		•	•										
61-179	Nylon Carrying Case									•	•			
C-90	Nylon Carrying Case		•	•	•	•	•	•	•					
C-50	Nylon Carrying Case	•												
C-954	Hard Carrying Case											•	•	
C-958	Hard Carrying Case													•

Test Lead Kits



TL-435

Industrial Test Lead Kit

Kit contains: 1.5m silicone lead set, probes w/SS tips, rigid alligator clips, flex pincer clips, insulated alligator clips, insulated spade lugs and padded zipper pouch, 1000V, 10A rating



TL-436

Electrical Test Lead Kit

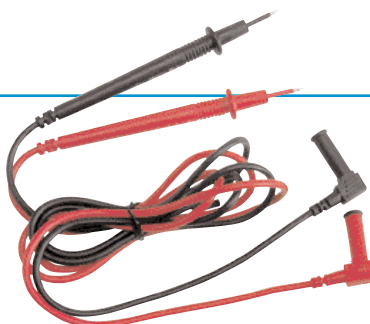
Kit contains: 1.5m silicone lead set, probes w/SS tips, insulated alligator clips and tri-fold pouch, 1000V, 10A rating

Test Leads



TL-42

Test Leads with alligator clips



TL-58

Standard Test Leads



TL-100

Premium Test Leads with alligator clips

TL-102

Silicone Test Leads



TL-104

Test Leads w/Alligator Clip



TL-252

Fused test leads with alligator clips, 10A 600V, CAT III-1000V

Replacement Parts Selection Guide

MULTIMETER REPLACEMENT PARTS SELECTION GUIDE			320 Series			350 Series			360		490		600 Series				610	
			61-320	61-322	61-324	61-350	61-352	61-354	61-360	61-361	61-494	61-495	61-602	61-603	61-605	61-609	61-610	61-614
FUSES																		
F-1	0.5A (250V)	0.25 x 1.25 in.															•	
F-102	1A (600V)	.41 x 1.5 in.		•	•					•	•							
F-103	15A (600V)	.41 x 1.5 in.								•	•							
F-350	10A (500V)	6.35 x 32mm				•	•											
LA-3893	2A (600V)	6.35 x 25.4mm						•										
LA-3895	0.5A (250V)	5 x 20mm										•	•		•	•		
LA-3896	0.5A (500V)	6.35 x 32mm						•										
LA-3897	10A (600V)	6.35 x 25.4mm						•										
LA-3898	0.1A (250V)	5 x 20mm							•									
BATTERIES																		
61-201	1.5V (LR44)													•				
B-1	1.5V (AA)		•													•	•	
B-4	9V			•	•				•	•	•	•	•		•			
TEST LEADS																		
TL-34	Leads w/pin connectors															•		
TL-58	Standard					•	•	•	•	•			•		•			
TL-54	Test Leads											•						
TL-100	Premium leads w/alligator clips		•	•	•						•	•						
RUBBER BOOTS																		
61-370	360 Series rubber boot							•	•									
C-92	Pocket-style meters rubber boot												•		•			
C-320	320 Series rubber boot		•	•	•													
C-490	490 Series rubber boot										•	•						
MISCELLANEOUS																		
61-565	Magnetic Strap		•	•	•	•	•	•			•	•						

CLAMP METER REPLACEMENT PARTS SELECTION GUIDE			61-452	700 Series			61-710	730		760 Series			770	
			61-452	61-701	61-702	61-704	61-710	61-732	61-736	61-764	61-766	61-768	61-772	61-774
FUSES														
F-1	0.5A (250V)	0.25 x 1.25mm					•							
BATTERIES														
B-4	9V			•	•	•				•	•	•	•	•
B-1	1.5V (AA)		•				•	•	•					
TEST LEADS														
TL-58	Standard		•				•	•	•					
TL-100	Premium leads w/alligator clips													
TL-102	Silicone test leads			•	•	•								
TL-104	Test leads w/alligator clip									•	•	•	•	•



DataComm



LANTEK® 6/6A/7G LAN Cable Certification Testers

LANTEK offers a family of high performance cable certification testers to support a full range of LAN cable testing. The LANTEK family of certification testers uses the IDEAL patented measurement system that removes the effects of ordinary patchcords, thus making channel and permanent link certification of a cable standard such as CAT6a or ISO-F possible without changing adapters. The same patented technology also makes DUALmode Testing possible so the users can get any two test results simultaneously. As a result, the LANTEK Cable Certification Testers save you money and time on the job.



- **LANTEK 7G 1GHz** is the world's first independently verified Level IV accurate LAN cable certification tester capable of testing installations up to 1 GHz, exceeding the requirements for CAT6a/7/ISO-F.
- **LANTEK 6A 500MHz** is designed to support the emerging CAT6a Standard to certify LAN cabling to support applications up to 10G Ethernet.
- **LANTEK 6 350MHz** is a Level III verified LAN certification tester designed to support up to CAT6/ISO-E cabling.

Features of LANTEK® Products

- **High-Performance LANTEK 7G/6A/6** – sweeps to 1 GHz and supports testing requirements up to CAT 6/6a/7/ISO-F and beyond
- **Level IV/IIIe/III Accuracy** – independently verified by ETL for baseline, channel and permanent link
- **DUALmode Testing to Save Time** – reports channel and permanent link test results simultaneously
- **Test with Patchcords to Save Money** – performs CAT6/5e/ISO-D/Ea testing with standard patchcords to achieve the lowest cost of ownership
- **Largest Internal/External Memory Capacity** – makes record management easy
- **Convenient FIBERTEK™ Accessory** – simultaneously tests two fibers for attenuation and length
- **Innovative TRACETEK™ Accessory** – performs advanced fiber fault location and troubleshooting functions



**The only
tester
to sweep
to 1GHz**

Kits Include

PACKAGE AND ACCESSORIES	LANTEK6B Basic	LANTEK6ABAS Basic	LANTEK6APREM Premium	LANTEK6ATRV Travel	LANTEK7GBAS Basic	LANTEK7GPREM Premium	LANTEK7GTRV Travel
Soft Carrying Case	✓	✓	—	—	✓	—	—
Deluxe Hard Shell Case	—	—	✓	—	—	✓	—
Airline Grade Travel Case with Wheels	—	—	—	✓	—	—	✓
PCMCIA Adapter Card & Reader	—	—	✓	✓	—	✓	✓
64MB Compact-Flash Memory Card	—	—	✓	✓	—	✓	✓
Category 6 Universal Adapters & Reference Cables	✓	—	—	—	—	—	—
Category 6a Universal Adapters & Reference Cables	—	✓	✓	✓	✓	✓	✓
CAT7 (TERA) Adapters & Reference Cables	—	—	—	—	✓	✓	✓
Batteries	2	2	4	4	2	4	4
DUAL Bay Rapid Battery Charger	—	—	✓	✓	—	✓	✓
Headsets (2), AC Adapters (2), Hanging Straps (2), Serial Cable (1), USB Cable (1), LANTEK Reporter Software (1)	✓	✓	✓	✓	✓	✓	✓

Note: Delivery content may vary outside of US. Please contact your local IDEAL sales office for details.
The airline grade Travel Case fits in most airline overhead storage compartments.

FEATURES	LANTEK 6 Basic	LANTEK 6A Premium	LANTEK 7G Premium
Frequency Range	350 MHz	500 MHz	1 GHz
Supports CAT7 & ISO-F	Upgradeable	Upgradeable	✓
Supports CAT6a	Upgradeable	✓	✓
Support CAT6/5e/3 and ISO-E/D/C	✓	✓	✓
Accuracy Level III/IIIe (Draft)/IV (LANTEK6/6A/7G) verified by	ETL	ETL	ETL
Support DUALmode Testing to Save Time	✓	✓	✓
Test with Patchcords to Save Money	✓	✓	✓
Screen Display Area	Best	Best	Best
CAT6 Test Storage with Graphs	500	500	500
Expansion Slots	2 PCMCIA	2 PCMCIA	2 PCMCIA
Standard External Compact Flash Memory	Option	64MB	64MB
USB/Serial Port	✓	✓	✓
Copper TDR Trace	✓	✓	✓
Fiber Loss Measurement (FIBERTEK)	Option	Option	Option
Fiber Distance to Break (TRACETEK)	Option	Option	Option
Talk over Fiber & Copper (Full Duplex)	✓	✓	✓
Display Screen on Remote	✓	✓	✓
Troubleshooting Tone Generator on Remote	✓	✓	✓
External Rapid Battery Charger & Extra Batteries	Option	✓	✓

Other Accessories	LANTEK6/6A/7G
Soft Carry Case	3010-12-0036
Deluxe Hard Carry Case	3010-12-0092
Batteries	1219-00-1604
Serial Cable	6011-50-0031
PCMCIA Adapter Card CompactFlash	2112-27-0603
64 MB CompactFlash Card	2112-27-0605
CompactFlash Card Reader for PC	2112-27-0604
LANTEK CAT 6/5e Channel Adapters (2)	0012-00-0629
LANTEK CAT 6/5e Reference Patchcords (2)	6011-50-0029
Talkset (2)	3010-70-0015
User Manual	6510-00-5000
Dual Bay Battery Charger	0012-00-0642
LANTEK CAT 7 TERA Testing Kit	1019-00-1105
LANTEK CAT 7 NEXANS Testing Kit	1019-00-1110
Coax Testing Adapter Kit	1019-00-0343
NEW – 110 Block Testing Adapter Kit	1019-00-1112
NEW – BIX Block Testing Adapter Kit	1019-00-1114
NEW – 66 Block Testing Adapter Kit	1019-00-1115
SOON – Patchcord Testing Adapter Kit	1019-00-1116



FIBERTEK™ and TRACETEK™ Advanced Fiber Test Options

Features of FIBERTEK™ Products

- Measures signal loss and length
- 850nm VCSEL light source enables Gigabit Ethernet certification on Multimode fiber
- Enables bi-directional, dual wavelength measurements
- Full duplex talkset capability
- Provides easy switching of LANTEK® Cable Tester between Copper and Fiber LAN testing
- Separate loopback testing method for high precision length
- Outstanding Temperature Compensation provides highly accurate test results in a wide variety of environments



FIBERTEKMMP Multimode Fiber Testing Premium Kit

- All of the features of the FIBERTEKMMB plus TRACETEK™ MM (below):

FIBERTEKSMP Singlemode Fiber Testing Premium Kit

- All of the features of the FIBERTEKSMB Plus TRACETEK™ SM (below):

Features of TRACETEK™ Products

- Enables LANTEK® certification testers to provide an event trace at a fraction of the price of an OTDR
- Provides easy switching of LANTEK® certification tester between FIBERTEK™ loss and length measurement and TRACETEK™
- Includes event plots that pinpoint significant losses along the fiber
- Provided with launch cable and appropriate connectors

FIBERTEK/TRACETEK PACKAGES	FIBERTEK MMB	FIBERTEK MMP	FIBERTEK SMB	FIBERTEK SMP	FIBERTEK ALLB	FIBERTEK ALLP	TRACETEK MM	TRACETEK SM
FIBERTEK – 850nm MM Adapter	✓	✓			✓	✓		
FIBERTEK – 1300nm MM Adapter	✓	✓			✓	✓		
FIBERTEK – 1310nm SM Adapter			✓	✓	✓	✓		
FIBERTEK – 1550nm SM Adapter			✓	✓	✓	✓		
TRACETEK – 1300nm MM Adapter		✓				✓	✓	
TRACETEK – 1310NM SM Adapter				✓		✓		✓
Fiber Cleaning Starter Kit	✓	✓	✓	✓	✓	✓	✓	✓
62.5/50µm, MM, ST-ST Cable Kit	✓	✓			✓	✓		
62.5/50µm, MM, FC-ST/FC-SC Cable Kit		✓				✓	✓	
9µm, SM, FC-ST Cable Kit			✓	✓	✓	✓		
9µm, SM, FC-ST/FC-SC Cable Kit				✓		✓		✓

SIGNALTEK™ Cable Performance Tester

SIGNALTEK™ provides a technically innovative method to test and document performance of voice, data, video, and VoIP applications for cabling installers and network technicians. It tests the link's ability to support applications by transmitting Ethernet packets on the wire and measuring the link performance according to IEEE 802.3ab Gigabit Ethernet standard. By monitoring transmitted and received data packets, it can report the BERT (Bit Error Rate Test) for the link. It uses the latest generation of Gigabit Ethernet technology to provide the best performance to this new class of testers.

Features of SIGNALTEK™

- **Unique** - Simulate real world network traffic with full-duplex gigabit performance testing
- **Unique** - User selectable 10/100/1000 Bit Error Rate Testing (BERT) to ensure performance for all Ethernet devices
- **Unique** - Smart autotest function detects line condition and automatically chooses appropriate test to run to allow testing cable that is terminated with a SIGNALTEK remote, a network device, or unterminated
- **Unique** - Save time using the remote to perform 10/100 or gigabit service detection AND initiate an Autotest when main unit is connected
- **Unique** - Maximum flexibility with two USB ports. Connect to a computer to upload test results, connect directly to a printer, or connect a USB memory drive for unlimited storage
- **Unique** - Get maximum coverage with a full two year warranty
- **Unique** - Configure multiple target IP addresses for pinging several network devices to ensure communications with servers, printers, IP cameras, home automation controls, etc.
- Offers network interrogation tools such as link establishment, port LED blink and ping
- Exceeds 100m measurement distance required by IEEE 802.3ab gigabit Ethernet standard
- Easy to read Pass/Fail performance reports that can be stored and printed for customer documentation
- Multiple BERT configurations for VoIP, data, and video-over-IP specific testing
- Brilliant high-resolution color display visible in any lighting condition
- Get 30 hours of testing with readily available AA batteries
- Wiremap faults easily with selectable 568 A/B color coding
- TDR to accurately measure length and locate shorts and opens

See your IDEAL representative for additional specifications on all certification products.



SIGNALTEK Cable Performance Report			
Installer: ACME Cabling			
Address: 9145 Balboa Ave.			
San Diego, CA, 92123			
Contact: Jim Michaelson			
Phone: 800-854-2708			
Company: Knudsen Electronics			
Address: 12271 Main Street, Suite 150			
San Diego, CA, 92120			
Contact: Brian Jones			
Phone: 800-854-2708			
SUMMARY			
Cable ID	Wiremap	Link	Performance
Grvbm0001	Pass	Pass	Pass
DETAILS			
Cable ID: Grvbm0001			
Cable Type: CAT5e			
Date: 12/01/2005 Time: 03:44pm			
Wiremap Test			
Pair	Length	Skew	Polarity
1,2	90m	0ns	OK
3,6	90m	0ns	OK
4,5	90m	0ns	OK
7,8	90m	0ns	OK
Link Test			
Rate: 1000BaseT			
Duplex: Full			
Performance Test			
Packet Size: 64byte			
Packet Fill: Random			
Transmitted: 100			
Received: 100			
Errors: 0			
Performance Result:			
PROTOCOL	RESULT		
100Mbps Ethernet	Pass		
100Mbps Ethernet	Pass		
10Mbps Ethernet	Pass		
VoIP	Pass		
Analog Voice	Pass		
IP Video	Pass		

Specifications

Cable Types

- Voice/phone cable - USOC/RJ-11/RJ-12 interface
- Data Cable - STP/UTP (RJ-45) for CAT 3/5e/6/6a/7 cabling
- Coax cable - via RJ-45 to F Patchcord, series 6, 59, 58 cabling (50/75 Ohm)

Battery Life: Standard AA Alkaline batteries

- Stand by - 90 days
- Cable testing - 30 hours
- Network monitoring - 4 hours

Physical Dimensions

- Display handset: 7.9" L x 3.6" W x 1.5" D
- Remote handset: 6.8" L x 3.5" W x 1.5" D
- Near-end Weight: 12.5 oz.

Ports/Connections

- RJ-45 test interface port
- Mini USB "A" port
- Standard USB "B" port
- DC power input for long-term network monitoring

Description	Cat. No.
SIGNALTEK™ Kit	33-974
Universal 120-240V Power Adapter	4010-00-0136
RJ-45 to 8 Head Alligator Clip	K-7920
Replacement Cable Accessory Kit - contains all original cables in SIGNALTEK™ Kit	1019-00-1112



LinkMaster™ PRO and LinkMaster™ PRO XL Testers

The LinkMaster™ PRO & LinkMaster™ PRO XL Testers enable installers, contractors and maintenance technicians to map, test and troubleshoot data and voice communication cable and coax runs. Rugged, versatile, and easy-to-use, they have mastered the link between performance, simplicity and value for both commercial and residential applications.

Features

Description	LinkMaster™ PRO	LinkMaster™ PRO XL
Blinks the hub		■
Displays length measurement with test results		■
Remotes have both RJ-11 and RJ-45 jacks		■
Backlight LCD screen		■
Measures length on UTP, STP and coax	■	■
Tests UTP for shorts, opens, miswires, reversals, split pairs and shield continuity	■	■
Test coax for opens, shorts and continuity	■	■
Shows wiring errors	■	■
Tests and identifies with all eight twisted pair and coax remotes	■	■
Sends tone with four different signals	■	■
Displays test results in wire map format	■	■
Snap-off battery cap	■	■
9 volt battery included	■	■

Kits and Accessories

Description	Cat. No.
LinkMaster™ PRO XL Kit w/eight remotes	33-880
LinkMaster™ PRO XL Kit w/eight remotes & ABS™	33-881
LinkMaster™ PRO XL Kit w/eight remotes (international packaging)	33-886
LinkMaster™ PRO XL Economy Kit w/one remote	33-887
LinkMaster™ PRO Kit w/eight remotes - Unshielded jumper cables	33-825
LinkMaster™ PRO Kit w/eight remotes - Shielded jumper cables	33-826
LinkMaster™ PRO Economy Kit w/one remote - Unshielded jumper cables	33-835
LinkMaster™ PRO Economy Kit w/one remote - Unshielded jumper cables	33-836
RJ-45 to RJ-11 jack adapter (2/card) POP Packaging	LA-4233
RJ-45 to F-connector adapter (2/card) POP Packaging	LA-4234
LinkMaster™ PRO XL remotes UTP/STP 2-8 only (white carton)	LA-4235
LinkMaster™ PRO XL large replacement case	H-3412
Security Kit - 8-position modular adapter and eight RJ-45 to alligator clip lead sets	LA-4517
BNC Accessory Kit	LA-4173
Set of eight color-coded F-terminators for LinkMaster™ PRO or PRO XL	LA-4159
LinkMaster™ PRO large replacement case	H-3324
Replacement economy kit case	IA-4868

Remote Jack for Patch Cords

Main Jack for all Testing

Larger Back-lighted LCD Screen

Six Modes of Operation

- Cable Test
- Hub Blink
- Tone
- Length
- Coax
- Setup Mode

Press SEL to:

- Turn on back-light (Hold 2 sec)
- Execute current displayed mode
- Start new test cycle
- Select one of four tones
- Change pair being measured for length
- Change user selectable options
 - Beep On/Off
 - Unshielded or Shielded Cable
 - Units—Feet or Meters

Arrow Keys

- To change length constant (see chart for required parameters)
- To change pair or pin selection for tone
- To scroll through setup selectable options



#33-880



#33-887



#33-825



#33-835

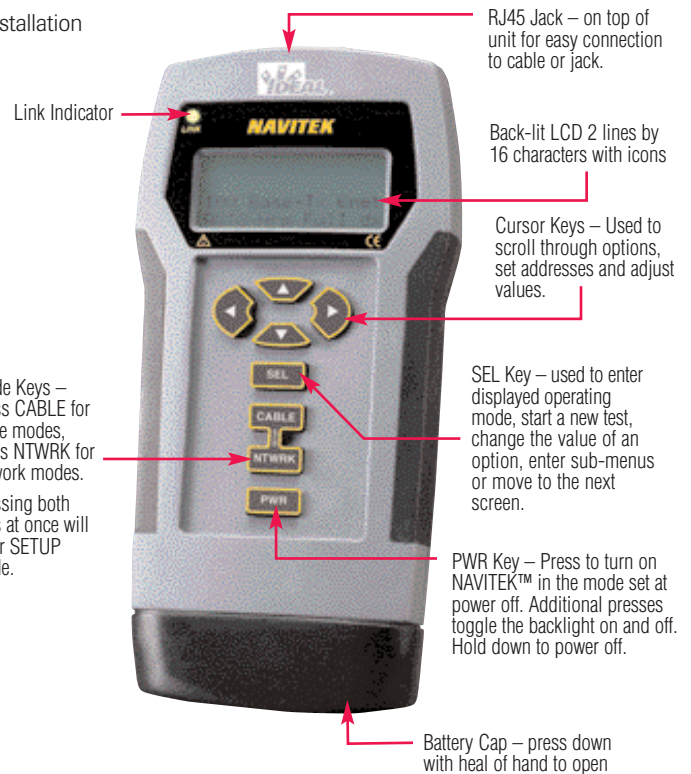
NAVITEK™ Network Tester

The perfect tester for troubleshooting a structured network. Verifies cable installation in a passive network and tests network connectivity in an active one.

- Most useful for network installers and IT facility personnel
- Determines whether drop is active
- Identifies port services such as Ethernet, ISDN, POTS and Token Ring
- Displays Ethernet network speed and capabilities
- Pings key devices to verify connectivity
- Verifies the integrity of the physical installation through wiremap, length measurement, shield continuity and fault identification
- Four tones for cable tracing
- Blinks the hub
- Snap-off battery cap for easy battery change
- Large, easy-to-read, backlit LCD display



Description	Cat. No.
Standard Kit with eight remotes and jumper cables	33-846
Economy Kit with one remote and two RJ-45 patchcords, two RJ-11 patchcords, one RJ-45 to RJ-11 adapter and one RJ-45 alligator clip	33-845
Tester Only Kit	62-500



VDV MultiMedia Cable Tester

Easy-to-use tester for installers working with voice, data and video applications. One tester for all applications!

- **Voice** – supports 3-pair USOC and 6-position RJ-11/12 jacks for telephone cable testing
- **Data** – supports both shielded and unshielded cable testing to T568A/B (RJ-45)
- **Video** – tests coax cable for opens and shorts with F-connector interface
- Tests for opens, shorts, miswires, reversals and split pairs. Also indicates correct wiremap. Has automatic shut off (to prolong battery life) and low battery indicator.
- Easy to read LCD display with "PASS/FAIL" indicator after each test
- Tone generator supports 4 different tones making fault isolation easier
- One remote wiremap and testing unit is stored inside tester– easier to keep all parts together
- Uniquely designed remote accommodates RJ-11, RJ-45 and F-style connectors



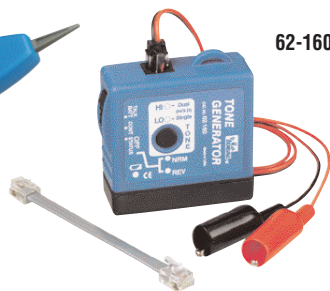
Description	Cat. No.
Kit with integrated remote and accessories	33-856

Amplifier Probe and Tone Generator

62-164



62-160



Amplifier Probe

- Identifies and traces wire or cables within a group
- Battery cap allows quick and easy battery replacement
- Battery low indicator

Tone Generator

- Emits three different types of tones
- Auto-off after three hours of non-use
- Tone can be added in any status

Description	Cat. No.
Amplifier Probe	62-164
Tone Generator	62-160

Amplifier Probe and Tone Generator Kits



33-864

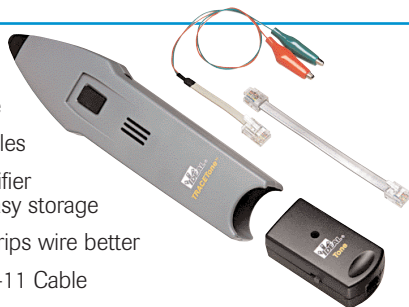
33-862

Kits include: Amplifier Probe, Tone Generator, Lead Set, Cable Assembly and flat tip

Description	Cat. No.
Kit in soft black pouch	33-864
Kit in hard gray case	33-862

TRACETone™ Tone Generator & Amplifier Probe

- Test continuity and locate signal of installed wire and cable
- Two selectable tone styles
- Tone Generator & Amplifier Probe fit together for easy storage
- Extra-deep serrations grips wire better
- RJ-11 Alligator Clip, RJ-11 Cable Assembly included



Description	Cat. No.
TRACETone™ Tester and Accessories	62-140

ABS™ Tester & ABS™ Signal Thrower

62-180



62-184



ABS™ Tester

- Amplifier probe with telephone troubleshooting capabilities
- Tone TRACE feature detects tone signal
- Receives and reproduces telephone system dial tone
- Indicates call addressing for correct telephone number
- Polarity indicator tests for correct wiring and power

ABS™ Tester and ABS™ Signal Thrower™

- Works with the ABS™ Tester to locate and identify cables
- Emits three different types of signals
- Auto-off after 3 hours of non-use

Description	Cat. No.
ABS™ Tester	62-180
ABS™ Signal Thrower™	62-184

ABS™ Tester & ABS™ Signal Thrower Kits

33-854



33-852

62-188



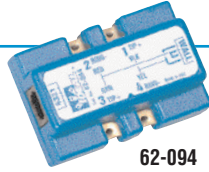
Kits include: ABS™ Tester, ABS™ Signal Thrower, Lead Set and Cable Assembly

Description	Cat. No.
Kit in soft black pouch	33-854
Kit in hard gray case	33-852
Kit on blister card	62-188

Modular Adapters

Tele4™ Modular Adapter

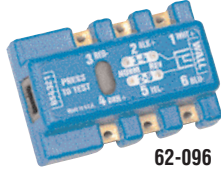
- 4-position Adapter
- High-performance jack



62-094

Smart6™ Modular Tester

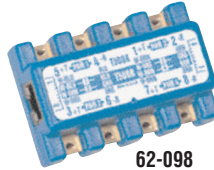
- 6-position Tester
- Incoming call identification



62-096

Data8™ Modular Adapter

- 8-position Adapter
- High-performance jack
- Internal circuit design to reduce attenuation, coupling, NEXT



62-098

Description	Cat. No.
Tele4™ Modular Adapter	62-094
Smart6™ Modular Tester	62-096
Data8™ Modular Adapter	62-098

LinkMaster™ Tester

Tests wiring configurations on UTP/STP cables. Checks for shorts, miswires, reversals and split pairs. Debug feature, automatic shut-off and low battery LED indication.

- Designed to test installed twisted pair wiring
- Tests unshielded and shielded modular plugs
- Main unit and remote allow one person testing



Works Great on CAT 6 Cabling

Description	Cat. No.
LinkMaster™ Tester and Remote	62-200

Ratchet Telemaster™



New cushion-grip handles

- For paired conductors
- Ratchet version of popular Telemaster™ Tool for RJ-45 and RJ-11 modular plugs
- Repeatable crimp action for consistent, high quality connections

Description	Cat. No.
Ratchet Telemaster™	30-696

Telemaster™ Telephone Tool

- For paired conductors
- Multi-function telephone tool cuts, strips and crimps for easy one-tool application
- Steel frame for long-term durability. (Crimps primary modular plug strain relief only)



Description	Kit Cat. No.	Tool Only Cat. No.
Tool for RJ-11 (1, 2, 3 pair) and RJ-45 (4 pair) Plugs	33-700*	30-496
Tool for RJ-45 (4 pair) & DECconnect MMJ (RJ-11, 3 pair)	N/A	30-497
Tool for RJ-11 (1, 2, 3 pair) & DECconnect MMJ (RJ-11, 3 pair)	N/A	30-498
Tool for RJ-22 (handset) and RJ-11 (1, 2, 3 pair)	N/A	30-499
Replacement Cut and Strip Blade Set for Telemaster™	N/A	LB-1747

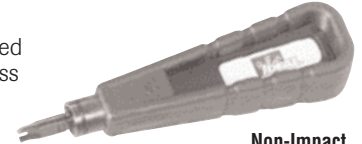
*Kit includes ten modular plugs each (85-351, 85-352, 85-353)

Punch Down Tools

- For paired conductors
- Insert and cut cable terminations effortlessly
- Impact-absorbing cushioned grip reduces operator stress for high volume installers
- Adjustable high/low actuation setting accommodates termination requirements for operator preference
- Storage compartment with unique locking device provides convenient storage for spare blades
- Punchmaster™ II and Non-Impact Tool have Turn-Lock™ Style blade holding design



Punchmaster™ II Turn-Lock™ Tool



Non-Impact Turn-Lock™ Tool



35-407 110/66 Blade



Punchmaster™ II Turn-Lock™ Tools

Description	Tool Cat. No.	Repl. Blade Cat. No.
Punchmaster™ II Punch Down Tool Body only	35-483	—
Punchmaster™ II Punch Down Tool w/110 Blade	35-485	35-495
Punchmaster™ II Punch Down Tool w/66 Blade	35-487	35-497
110/66 Cut Blade only	—	35-407
Krone® Blade only	—	35-478
Bix® Blade only	—	35-479
Punch Down Tool Pouch only (fits all tools)	35-490	—

Bix® is a registered trademark of Nortel. Krone® is a registered trademark of Krone, Inc.

Non-Impact Turn-Lock™ Style

Description	Tool Cat. No.	Repl. Blade Cat. No.
Body only	35-491	—
Tool w/110 Blade	35-492	35-495
Tool w/66 Blade	35-493	35-497

Data T®-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
- Locking latch keeps tool closed in pouch
- Data T®-Cutter II designed for RG-58 and RG-6 coaxial cable

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

Economy Round Cable and Wire Cutter

- Cuts multi-conductor cable up to .500 in. (12.7mm) and solid or stranded wire up to #8 AWG (10mm²)
- Built-in return spring, locking latch
- Stamped, hardened steel frame with curved cutting blades

Description	Cat. No.
Multi Conductor Cable to .500 in. (12.7mm) Solid or Stranded	35-051

Center Conductor Cutter

- Trims coax center conductor to 3/16 in. (4.8mm) length for proper installation into a dual crimp coax connector



Description	Cat. No.
Center Conductor Cutter	35-060

Lever™ -Snips Electrician's Scissors with Stripping Notches



- Ergonomic design gives added leverage
- Spring-action, mechanical advantage increases stripping leverage and reduces operator fatigue
- Double plated for added rust protection
- Extra-deep serrations grips wire better

Description	Cat. No.
Electrician's Scissors with Stripping Notches	35-087

Cable Splicing Kit



Description	Cat. No.
Cable Splicing Kit (Scissors, Splicing Knife, Leather Holder)	35-093
Leather Holder only for Scissors and Knife	35-094

Electrician's Scissors

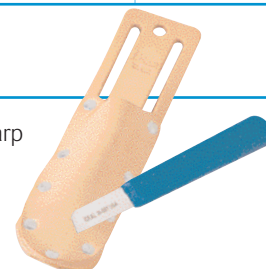


- Designed for use in telephone and electrical service applications
- Cut up to 16 AWG solid and 12 AWG stranded wire
- Serrated surface on back blade edge cleans wire
- Electrician's Scissors with stripping notches strip 19 and 23 AWG wire

Description	Cat. No.
Electrician's Scissors w/stripping notches	35-088
Electrician's Scissors	35-089
Leather Scissors Holder Only	35-090

Cable Splicing Knife

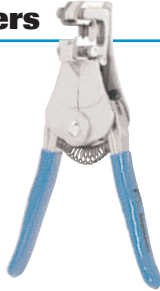
- High carbon steel blade remains sharp and cuts easily through many insulation types
- Comfortable, full size, no slip handle for easy use



Description	Cat. No.
Cable Splicing Knife and Leather Holder	35-091
Leather Knife Holder Only	35-092

Coax Stripmaster® Wire Strippers

- Speeds 2-step cable stripping
- Spring-action operation grips and strips in one motion
- Knife-type blades feature multiple hole diameters sized for two step removal of outer jacket insulation and center conductor



Description	Coax Cable Type (RGU)	Repl. Blade Cat. No.	Cat. No.
Coax Stripmaster® for RG-6	RG-6	LB-740	45-262
Coax Stripmaster® for RG-59	RG-59	LB-743	45-265
Coax Stripmaster® for RG-6 Quad Shield	RG-6 Quad Shield	LA-3953	45-282

Coax Cable Stripper

NEW

- For RG-6, RG-6 Quad and RG-59
- No adjustment required
- Strips center conductor and cable jacket



Description	Cat. No.
Coax Cable Stripper	45-320

Cyclops® Data Cable Stripper

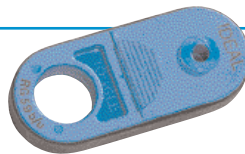
- Fast, easy removal of outer sheath insulations (PVC and Plenum types) from all Unshielded Twisted Pair (UTP), Shielded Twisted Pair (STP) and multicore cables up to .433 in. (11mm) in diameter



Description	Cat. No.
Data Cable Stripper for unshielded and shielded twisted pair cable	45-514

Toggle® Coax Stripper

- Toggle® Tools for stripping Ethernet, Thinnet, RG-62 or RG-59 coax cable and other cable sizes
- Each tool does 2 or 3-step strips with no adjustment

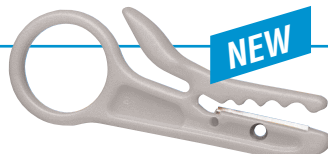


Description	Cat. No.
Coax Stripper for RG-58	45-508
Coax Stripper for Belden® 8281®	45-509
Coax Stripper for RG-8/11U	45-510
Coax Stripper for RG-174	45-512
Coax Stripper for RG-6	45-513
Coax Stripper for RG-59	45-517

UTP Cable Stripper

NEW

- Strips Cat 3, 5, 5e & 6 cables
- One step stripping



Description	Cat. No.
UTP Cable Stripper	45-167

UTP/STP/Coaxial Cable Strippers

- Lightweight, compact, cost-effective stripper is simple to operate
- Adjustable blades can be set for any depth to help ensure nick-free strips
- Use with twisted-pair wire, tightly wrapped stranded cables, CATV cable, CB antenna cable, SO, SJ, SJT, and other types of flexible power cords



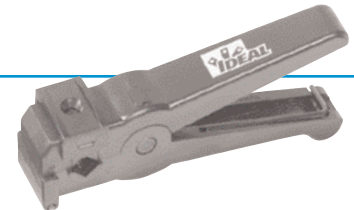
- Includes three straight and one round blade

Description	Typical RG Cables	Cat. No.
Coaxial Cable Stripper, up to 1/8 in. (3.2mm) O.D.	RG-174, RG-187	45-162 (Gray)
Coaxial Cable Stripper, 1/8 in. (3.2mm) to 7/32 in. (5.56mm) O.D.	RG-58, CB Antenna Cable	45-163 (Blue)
Coaxial Cable Stripper, 1/4 in. (6.4mm) to 9/16 in. (14.3mm) O.D.	RG-11, RG-8	45-164 (Blue)
Cable Stripper, 3/16 in. (4.8mm) to 5/16 in. (8mm) O.D.	RG-59, UTP Cable	45-165 (Black)
Replacement Blade Set* for 45-162, 45-163, 45-165	—	L-9225
Replacement Blade Set* for 45-164	—	L-9226

*A set of blades consists of three straight blades and one round blade.

Coax Strippers

- Specific adjustments needed for each cable size



Description	Replacement Cassette	Cat. No.
Coax Stripper - 3 Step - For crimp BNC and TNC conn. - Strips braid 0.240 in. or 6mm and Dielectric 0.240 in. or 6mm	45-522 (Black)	45-520
Coax Stripper - 3 Step - For dual crimp BNC/TNC and Thinnet BNC conn. - For 735A Belden® cable - Strips braid 0.328 in. or 8.2mm and dielectric 0.109 in. or 2.7mm	45-523 (Brown)	45-521
Coax Stripper - 2 Step - For F-Type, many single crimp BNC/TNC's, Twist-on BNC/TNC's, Twinax and UHF conn. - Strips 0.250 in. or 6.35mm	45-524 (Blue)	45-526
Coax Stripper - 2 Step - For most Twinax and UHF conn. - Strips 0.480 in. or 12mm	45-525 (Green)	45-527
Coax Stripper - 3 Step - For dual crimp N-Series Ethernet conn. - Strips braid 0.240 in. or 6mm and Dielectric 0.240 in. or 6mm	—	45-528

Coax Strip and Crimp Tool

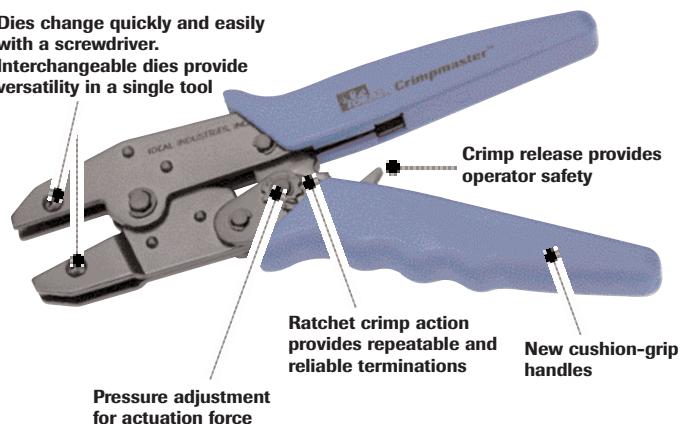


- Precision, form-ground stripping holes remove outer jacket and insulation from RG-59 and RG-6 coaxial cable
- Durable blades cut copper-coated steel conductors
- Three crimping nests for crimping F-connectors and ring terminals
- Cushioned, comfort-grip handles

Description	Cat. No.
Coax Strip & Crimp Tool	30-433

Crimpmaster™ Crimp Tool & Die Sets

Dies change quickly and easily with a screwdriver. Interchangeable dies provide versatility in a single tool



High quality ratchet-type crimp tool for electricians, contractors and installers who require guaranteed repeatability of good mechanical and electrical connections.

Paired Conductor Termination

Description	Tool Cat. No.	Replacement Die Set Cat. No.
Crimpmaster™ Crimp Tool Frame	30-506	—
RJ-11 Two, four, and six-position Crimp Tool for AMP RJ-11 modular plugs	30-520	30-562
RJ-45 Eight-position Crimp Tool for AMP RJ-45 modular plugs	30-521	30-560
RJ-45 Eight-position Crimp Tool for keyed or non-keyed modular plugs	30-522	30-559
RJ-45 Ten-position Crimp Tool	30-523	30-561
RJ-11 Crimp Tool for two, four or six-position modular plugs	30-524	30-556
RJ-11 Crimp Tool for DEC MMJ six-position modular plugs with an off-set release tab	30-525	30-558
Crimpmaster™ Handset Die for four-position handset modular plugs	30-526	30-565

Round Cable Slitting and Ringing Tool



- Cuts around cable jacket as well as slits the length of jacket for easy removal
- Use with single or multiple conductor cable up to 1.75 in. O.D.
- Blade adjusts for jacket thicknesses up to .125 in.
- Spare blade in handle base

Description	Cat. No.
Round Cable Slitting and Ringing Tool	45-144
Cable Stripper for 1/4 in. to 3/4 in. O.D.	45-128
Replacement Blades for 45-144 (2/pkg.)	LB-1748
Replacement Blades for 45-128 (2/pkg.)	L-7486

Coaxial Termination

Description	Tool Cat. No.	Replacement Die Set Cat. No.
22-10 AWG (.324mm ² - 5.261mm ²) fully insulated slide-on connectors	30-477	30-594
Large gauge sound cable	30-478	—
Insulated Terminal Crimp Tool with built-in locator	30-479	—
22-12 AWG (.324mm ² - 3.31mm ²) Non-insulated open barrel crimp style connectors	30-480	30-586
RG-58, 59, 62 Non-plenum Cambridge BNC/TNC connectors	30-481	30-573
RG-8/11, RG-213, RG-216 Ethernet Thickwire, N-Series type plugs and jacks	30-482	30-577
RG-9, Belden® 8281® and RG-6 Cable, 50 & 75 Ohm	30-483	30-578
RG-58 and RG-174 cable for 50 and 75 Ohm cables	30-484	30-587
RG-174 Mini-59 Hex BNC/TNC coax connector	30-485	30-576
RG-58 and RG-59 Plenum cables, Thinwire PVC Hex	30-486	30-591
16-26 AWG (1.31mm ² - 1.28mm ²) Miniature insulated rings and splices	30-487	30-572
AMP DEC RG-58 Thinwire connectors	30-488	30-588
SMA or SFR-Type fiber optic connectors	30-490	30-597
22-10 AWG (.324mm ² - 5.261mm ²) Insulated ring tongue terminals and splices	30-500	30-579
22-8 AWG (.3mm ² - 8mm ²) Non-insulated terminals and splices	30-501	30-580
RG-58 RG-59/62AU BNC/TNC 3-Piece Hex type connectors	30-502	30-581
CATV RG-59 and RG-6 Captive Ring F-connectors	30-503	30-582
SMA or SFR-Type Hex fiber optic connectors	30-489	30-596

OmniSeal™ XL Compression Tool

- Factory preset and calibrated to assemble the following connectors: BNC, F-connector for series 6 and 59 cables, RCA connectors
- Compatible with IDEAL, PPC, Thomas & Betts, Digicon and Gilbert Connectors
- Major cable companies use the same tool and connectors to ensure quick, reliable, high quality terminations



Description	Cat. No.
OmniSeal™ XL Compression Tool	30-703

OmniSeal™ 11 Compression Tool

- Assembles the following 11, 6 and 59-series F-connectors: IDEAL (PPC CMP and EX/XL), PPC (EX/XL), Telewire (Didigon-S™), Gilbert (Ultraseal™), Thomas & Betts (Snap-N-Seal™)
- Assembles PPC RCA connectors
- Light-weight and durable composite body
- Extended handles reduce hand fatigue



Description	Cat. No.
OmniSeal™ 11 Compression Tool	30-720

OmniSeal™ Compression Tool

- Connects RG-6, RG-6 Quad Shield and RG-59 compression connectors on coaxial cable
- Fast and reliable solution to home theater, CATV, satellite systems and security applications
- Permanent connection so your connector never comes loose
- Universal design works with most compression connectors



Description	Cat. No.
OmniSeal™ Compression Tool	30-603

Economy Compression Tool

- Easily compresses series 6 and 59 coax compression connectors
- Permanent connection – never comes loose
- Works with most brands of compression connectors
- Adjustable nesting fixture accommodates a variety of connectors



Description	Cat. No.
Economy Compression Tool	30-633

CMP Compression Connectors

- Approved for use by most cable TV and satellite companies
- RF signal containment ensures strong signal
- Permanent connections do not pull off or come loose
- Provides superior durability in all climates compared to other manufacturers' connectors
- One-piece design for quick installation
- Compression port seal provides a water-tight seal for outdoor applications



Description	Qty.	Cat. No.
RG-59 Compression F-Connector	50	89-054
RG-59 Compression F-Connector	100	89-104
RG-6 Compression F-Connector	50	89-055
RG-6 Compression F-Connector	100	89-105
RG-6 Quad Compression F-Connector	50	89-056
RG-6 Quad Compression F-Connector	100	89-106

Universal Compression Connectors

- Four universal connectors terminate all plenum RG-6, RG-6, RG-59 and RG-11 braid types from 60% through quad shielding
- Approved by most satellite and cable TV companies
- Approved for indoor/outdoor use



Description	Qty.	Cat. No.
Universal RG-59 Compression Connectors	Jar of 50	89-059
	Jar of 100	89-159
Universal RG-6 Compression Connectors	Jar of 50	89-060
	Jar of 100	89-160
Plenum RG-6 Compression Connectors	Jar of 50	89-060P
	Jar of 100	89-160P
Universal RG-11 Compression Connectors	Clam of 10	89-011

BNC Compression Connectors

- One connector for all cable types within a given RG series
- Color coded by cable series for easy identification
- Approved for indoor/outdoor use



Description	Qty.	Cat. No.
BNC RG-6 Compression Connector	Clam of 15	89-057
BNC RG-59 Compression Connector	Clam of 15	89-058

Compression F-Connector Port Seals

- For use with IDEAL RG-6, RG-6 Quad and RG-59 F-Style compression connectors to make connections water tight



Description	Qty.	Cat. No.
Port Seal	5	89-026

Push-on F-Connectors

- RG-6
- Toolless installation



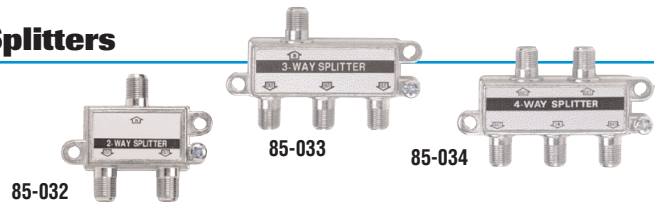
Description	Qty.	Cat. No.
Push-on F-Connectors	4	85-065

F-Series Coaxial Connectors

F-Series Connectors utilize threaded couplings and cable conductors as contacts for CATV and other UHF applications.

	Description	Quantity	Cat. No.
	F-Series, Twist-on Plug, RG-59	Card of 10	85-035
		Card of 50	85-015
		Box of 100	86-015
	F-Series, Crimp Plug, RG-59	Card of 10	85-036
		Card of 50	85-016
		Box of 100	86-016
	F-Series, Crimp Plug, RG-6	Card of 10	85-037
		Card of 50	85-017
		Box of 100	86-017
	F-Series, 2-Piece Crimp Plug, RG-59	Card of 50	85-027
		Box of 200	86-027
	F-Series, 2-Piece Crimp Plug, RG-6	Card of 50	85-028
		Box of 200	86-028
	F-Series, Crimp Plug, RG-59, Quad Shield	Card of 10	85-059
		Card of 50	85-029
		Box of 100	86-029
	F-Series, Crimp Plug, RG-6, Quad Shield	Card of 10	85-057
		Card of 50	85-030
		Box of 100	86-030
	F-Series, Female Adapter	Card of 10	85-031
		Box of 100	86-031
	F-Series, Terminator	Card of 10	85-038
		Box of 100	86-038
	F-Type, Twist-on RG-6	Card of 10	85-053
		Card of 50	85-039
		Box of 100	86-039
	F-Type, 1-Piece Crimp, RG-59 Plenum	Card of 50	85-040
		Box of 100	86-040

Splitters



Description	Quantity	Cat. No.
CATV Cable Splitter, 5-900 MHz, 2-Way	Card of 1	85-032
	Box of 10	86-432
CATV Cable Splitter, 5-900 MHz, 3-Way	Card of 1	85-033
	Box of 10	86-433
CATV Cable Splitter, 5-900 MHz, 4-Way	Card of 1	85-034
	Box of 10	86-434
High Performance Cable Splitter, 5MHz-1GHz 2-Way	Card of 1	85-132
	Box of 10	86-132
High Performance Cable Splitter, 5MHz-1GHz 3-Way	Card of 1	85-133
	Box of 10	86-133
High Performance Cable Splitter, 5MHz-1GHz 4-Way	Card of 1	85-134
	Box of 10	86-134

Satellite and 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
- Includes two mounting screws (Phillips/slotted head)

Description	Qty.	Cat. No.
2-Way, 5MHz - 2.3GHz	1	85-332
3-Way, 5MHz - 2.3GHz	1	85-333
4-Way, 5MHz - 2.3GHz	1	85-334

Coax Connector Tool - F & BNC

- Works on compression and hex connectors
- Makes attaching (and detaching) connector to equipment easier
- Aids in installing CATV connectors on coax cable
- New comfort grip handle



Description	Cat. No.
Coax Connector Tool - F & BNC	35-046

DataComm Equipment

Economy Data and CATV Kit

NEW



33-915

Contents of Kit	Qty.	Cat. No.
Data T®-Cutter	1	45-074
Economy Coax Stripper	1	45-320
Economy UTP Stripper	1	45-167
Non-Impact Turn-Lock™ Tool w/110 Blade	1	35-492
Telemaster™ Telephone Tool	1	30-496
Economy Compression Tool	1	30-633
Mechanics Bag	1	35-535

Basic Data and Video Kit

NEW



33-916

Contents of Kit	Qty.	Cat. No.
Data T®-Cutter	1	45-074
UTP Stripper	1	45-165
Stripmasater® Wire Stripper for RG-6	1	45-262
Punchmaster™ II Punch Down Tool w/110 Blade	1	35-485
OmniSeal™ XL Compression Tool	1	30-703
TRACETone™ Tone Generator & Amplifier Probe	1	62-140
VDV Multimedia Cable Tester	1	33-856
Journeyman Electrician's Tote™	1	35-462

Data/Video Kit

NEW



33-917

Contents of Kit	Qty.	Cat. No.
Data T®-Cutter	1	45-074
7-in-1 Screwdriver	1	35-908
UTP Stripper	1	45-165
Coax Stripper w/Replaceable Cartridge	1	45-526
Punchmaster™ II Punch Down Tool w/110 Blade	1	35-485
110/66 Blade Combo Punch Down Blade	1	35-407
Crimpmaster™ Crimp Tool for RJ-45 Modular Plugs	1	30-522
OmniSeal™ XL Compression Tool	1	30-703
Probe Pic and Spudger	1	35-473
F/BNC Connector Insertion/Removal Tool	1	35-046
VDV MultiMedia Cable Tester	1	33-856
Amplifier Probe	1	62-164
Electrician's Scissors w/Stripping Notch	1	35-088
Large Mouth Bag — 13 in.	1	35-410

Economy CATV Compression Kit

NEW



33-621

Contents of Kit	Qty.	Cat. No.
Economy Compression Tool	1	30-633
Data T®-Cutter	1	45-074
Economy Coax Stripper	1	45-320
Zipper Pouch	1	35-402
RG6 CMP Compression Connectors	4	89-015

Residential Compression Kit

NEW



Kit 33-625 Includes:

Description	Qty.	Cat. No.
OmniSeal™ Compression Tool	1	30-603
Mechanic's Tool Bag	1	35-535
Data T®-Cutter	1	45-074
Coax Stripmaster® Wire Stripper for RG-6	1	45-262
Stripmaster® RG-6 QuadShield Repl. Blade	1	LA-3953
Universal RG-6 Compression Connectors (jar)	50	89-060

Economy Compression Kit

NEW



Kit 33-620 Includes:

Description	Qty.	Cat. No.
Economy Tool	1	30-633
Data T®-Cutter	1	45-074
Coax Stripper	1	45-526
RG-59 Compression F-Connectors	10	89-054
RG-6 Quad Compression F-Connectors	10	89-056
RG-6 Compression F-Connectors	20	89-055

Service Compression Kit

NEW



Kit 33-630 Includes:

Description	Qty.	Cat. No.
Universal RG-6 Compression Connectors	50	89-060
Plenum RG-6 Compression Connectors	10	89-060P
BNC RG-59 Compression Connectors	10	89-058
BNC RG-6 Compression Connectors	10	89-057
OmniSeal™ XL Compression Tool	1	30-703
Compression F-Connector Port Seals	5	89-026
Data T®-Cutter	1	45-074
Coax Stripmaster® Wire Stripper for RG-6	1	45-262
Replacement Blade for 45-262	1	LA-3953

RJ-45/11 Two, Four, Six and Eight-Position Combination TelCom Termination Kit



Kit 33-704 Includes:

Description	Qty.	Cat. No.
Telemaster™ for RJ-11/RJ-45 Plugs	1	30-496
4-Position, RJ-11 Stranded Modular Plugs	15	85-351
6-Position, RJ-11 Stranded Modular Plugs	15	85-352
8-Position, RJ-45 Stranded Modular Plugs	15	85-353

Economy 10Base-T Kit



Kit 33-750 Includes:

Description	Qty.	Cat. No.
UTP/Coax Stripper	1	45-165
Telemaster™ RJ-11/RJ-45 Crimp Tool	1	30-496
8-Position RJ-45 Non-keyed Solid Plugs	50	85-346

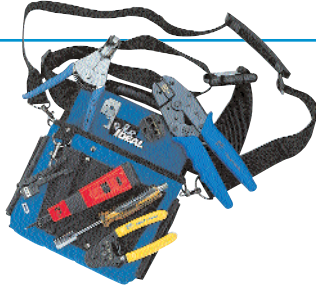
Crimpmaster™ 10Base-T RJ-45 Crimping Kit



Kit 33-652 Includes:

Description	Qty.	Cat. No.
Data T®-Cutter	1	45-074
UTP/Coax Stripper	1	45-165
Crimpmaster™ Crimp Tool Frame only	1	30-506
8-Position Die Set for RJ-45 Plugs	1	30-559
8-Position RJ-45 Non-Keyed Solid Plugs	200	86-396

Residential Kit



Kit 33-905 Includes:

Description	Qty.	Cat. No.
Data T [®] -Cutter	1	45-074
UTP Stripper	1	45-165
Punchmaster™ Punch Down Tool w/110 Blade	1	35-485
Crimpmaster™ RJ-45	1	30-522
CATV Die Set	1	30-582
Stripmaster® Wire Stripper RG-6	1	45-262
RG-6 Quad Shield Stripmaster® Blade	1	LA-3953
F-Connector Tool	1	35-046
Journeyman's Electrician's Tote™	1	35-462

Pro Residential Kit



Kit 33-925 Includes:

Description	Qty.	Cat. No.
Journeyman's Electrician's Tote™	1	35-462
Punchmaster™ II Punch Down Tool	1	35-483
110/66 Blade	1	35-407
UTP Stripper	1	45-165
5-in-1 Screwdriver	1	35-905
Probe Pic	1	35-473
Lever™-Snips Electrician's Scissors	1	35-087
Data T [®] -Cutter	1	45-074
Coax Stripper	1	45-524
F-Connector Tool	1	35-046
Tone Generator	1	62-160
Amplifier	1	62-164
CATV Crimpmaster™ Crimp Tool	1	30-503
RJ-45 Die Set	1	30-559

Cable Service Kit



Kit 33-605 Includes:

Description	Qty.	Cat. No.
Punchmaster™ Punch Down Tool w/110 Blade	1	35-485
66 Blade Only	1	35-497
Electrician's Scissors w/Stripping Notches	1	35-088
UTP/STP Stripper	1	45-165
5-in-1 Screwdriver	1	35-905
Probe Pic & Spudger	1	35-473
Tone Generator	1	62-160
Amplifier Probe	1	62-164
Journeyman's Electrician's Tote™	1	35-462

Deluxe Cable Service Kit



Kit 33-705 Includes:

Description	Qty.	Cat. No.
Punchmaster™ II Punch Down Tool w/110 Blade	1	35-485
66 Blade Only	1	35-497
Electrician's Scissors w/Stripping Notches	1	35-088
UTP/STP Stripper	1	45-165
5-in-1 Screwdriver	1	35-905
Probe Pic & Spudger	1	35-473
Tone Generator	1	62-160
Amplifier Probe	1	62-164
Journeyman's Electrician's Tote™	1	35-462
Telemaster™ Telephone Tool	1	30-496
LinkMaster™ Tester and Remote	1	62-200

Twisted Pair/Coax Termination Kit



Kit 33-806 Includes:

Description	Qty.	Cat. No.
Tele T [®] -Stripper Wire Stripper	1	45-076
Data T [®] -Cutter	1	45-074
UTP/Coax Stripper	1	45-165
Coax Cable Stripper w/black cassette	1	45-520
Coax Stripper w/red cassette	1	45-528
Replacement Cassette, brown	1	45-523
Crimpmaster [™] Crimp Tool Frame only	1	30-506
RG-8/11 Ethernet Die Set	1	30-577
Thinnet BNC Die Set	1	30-588
RG-58/59/62 BNC Die Set	1	30-581
2, 4, 6-Position Die Set for RJ-11 Plugs	1	30-556
8-Position Die Set for RJ-45 Plugs	1	30-559
6-Position DEC MMJ Die Set for RJ-11 Plugs	1	30-558
8-Position Die Set for RJ-45, AMP Plugs	1	30-560
Punchmaster [™] II Punch Down Tool w/66 Blade	1	35-487
Punchmaster [™] II 110 Blade only	1	35-495

Cable Service/Termination Kit



Kit 33-861 Includes:

Description	Qty.	Cat. No.
Data T [®] -Cutter	1	45-074
Center Conductor Cutter	1	35-060
UTP/Coax Stripper	1	45-165
Coax Stripper w/black cassette	1	45-520
Crimpmaster [™] RG-58/59 Crimp Tool	1	30-502
2, 4, 6-Position Die Set for RJ-11 Plugs	1	30-556
8-Position Die Set for RJ-45 Plugs	1	30-559
Punchmaster [™] II Punch Down Tool w/66 Blade	1	35-487
Punchmaster [™] II 110 Blade only	1	35-495
ABS [™] Signal Thrower [™]	1	62-184
ABS [™] Tester	1	62-180
LinkMaster [™] Tester w/Remote	1	62-200
Cable Assemblies	1	K-7921

Crimpmaster[™] F-Type (CATV) Connectors Kit



Kit 33-400 Includes:

Description	Qty.	Cat. No.
Crimpmaster [™] CATV Crimp Tool	1	30-503
F-Connector, Crimp-on RG-59 Plugs	20	85-016
F-Connector, Crimp-on RG-6 Plugs	20	85-017

Technician's Service Kit



Kit 33-505 Includes:

Description	Qty.	Cat. No.
Punchmaster [™] II Punch Down Tool w/110 Blade	1	35-485
Punchmaster [™] II 66 Blade only	1	35-497
Electrician's Scissors w/stripping notches	1	35-088
UTP/STP Stripper	1	45-165
5-in-1 Screwdriver	1	35-905
Probe Pick and Spudger	1	35-473
Nylon case	1	62-205

Installer Kit



Kit 33-935 Includes:

Description	Qty.	Cat. No.
UTP/STP Stripper	1	45-165
Data T [®] -Cutter	1	45-074
Jab Saw	1	35-275
Large Mouth Bag	1	35-427
Punchmaster™ II 110 Blade only	1	35-485
110/66 Blade	1	35-407
Electrician's Scissors w/stripping notches	1	35-088
Torpedo Level	1	35-205
Mag-Tape™ Tape Measure	1	35-238
Tongue & Groove Pliers – 10 in.	1	35-430
5-in-1 Screwdriver/Nutdriver	1	35-905
Probe Pic and Spudger	1	35-473
Cable Cutter	1	35-061
Fiberglass-Handled Hammer – 18 oz. x 12-1/2 in.	1	35-210

Pro Installer Kit



Kit 33-945 Includes:

Description	Qty.	Cat. No.
Large Mouth Bag	1	35-427
110/66 Blade	1	35-407
66 Blade only	1	35-497
Punchmaster™ II 110 Blade only	1	35-485
Lever™-Snips Electrician's Scissors	1	35-087
Probe Pic and Spudger	1	35-473
UTP/STP Stripper	1	45-165
7-in-1 Twist-a-Nut™ Screwdriver/Nutdriver	1	35-908
Mag-Tape™ Tape Measure	1	35-238
Torpedo Level	1	35-205
Jab Saw	1	35-275
OmniSeal™ Compression Tool	1	30-603
Coax Stripper - 2-Step	1	45-526
Smart-Grip™ Long-Nose Pliers – 7-3/4 in.	1	35-3037
Smart-Grip™ Tongue & Groove Pliers – 10 in.	1	35-3430
Tongue & Groove Pliers – 9-1/2 in.	1	35-420
Tone Generator	1	62-160
Amplifier Probe	1	62-164
Data T [®] -Cutter	1	45-074
Cable Splicing Knife	1	35-091
Ratchet Telemaster™	1	30-696
F-Connector Tool	1	35-046

Wall Plates



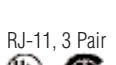
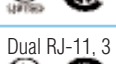
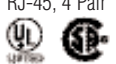
85-205

85-220

85-218

Telephone Wall Plates are listed and approved by the Underwriter's Laboratories and contain 50 micro inches of gold plating on the contacts.

Telephone Wall Plates - Standard Size

Description	Color	Qty.	Cat. No.
RJ-11, 2 Pair 	Ivory	Card of 1	85-206
		Box of 100	86-206
	White	Card of 1	85-207
		Box of 100	86-207
	Almond	Card of 1	85-223
		Box of 100	86-223
Dual RJ-11, 2 Pair 	Ivory	Card of 1	85-208
		Box of 100	86-208
	White	Card of 1	85-209
		Box of 100	86-209
RJ-11, 3 Pair 	Ivory	Card of 1	85-210
		Box of 100	86-210
	White	Card of 1	85-211
		Box of 100	86-211
RJ-11, 3 Pair 	Almond	Card of 1	85-225
		Box of 100	86-225
		Card of 1	85-212
Dual RJ-11, 3 Pair 	Ivory	Box of 100	86-212
		Card of 1	85-213
	White	Box of 100	86-213
		Card of 1	85-214
RJ-45, 4 Pair 	Ivory	Box of 100	86-214
		Card of 1	85-215
	White	Box of 100	86-215
		Card of 1	85-227
Dual RJ-45, 4 Pair 	Almond	Box of 100	86-215
		Card of 1	85-216
		Box of 100	86-216
	Ivory	Card of 1	85-217
RJ-11, 2 Pair Wall Mount Plate 		Box of 100	86-217
		Card of 1	85-218
	White	Box of 100	86-218
		Card of 1	85-219
CATV Coax	Almond	Box of 100	86-219
		Card of 1	85-229
		Box of 100	86-229
	Ivory	Card of 1	85-200
Dual CATV Coax		Box of 100	86-200
	White	Card of 1	85-201
		Box of 100	86-201
Dual CATV Coax	Almond	Card of 1	85-220
		Box of 100	86-220
		Card of 1	85-202
	Ivory	Box of 100	86-202
Combo CATV/RJ-11		Card of 1	85-203
	White	Box of 100	86-203
		Card of 1	85-221
	Almond	Box of 100	86-221
		Card of 1	85-204
	Ivory	Box of 100	86-204
Combo CATV/RJ-11		Card of 1	85-205
	White	Box of 100	86-205
		Card of 1	85-222
	Almond	Box of 100	86-222

Wall Plates

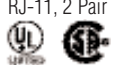


85-239

85-237

85-232

Telephone Wall Plates — Mid-Size

Description	Color	Qty.	Cat. No.
RJ-11, 2 Pair 	Ivory	Card of 1	85-242
		Box of 100	86-242
	White	Card of 1	85-237
		Box of 100	86-237
	Almond	Card of 1	85-233
		Box of 100	86-233
Combo CATV/RJ11	Ivory	Card of 1	85-241
		Box of 100	86-241
	White	Card of 1	85-236
		Box of 100	86-236
CATV Coax	Almond	Card of 1	85-232
		Box of 100	86-232
		Card of 1	85-239
	Ivory	Box of 100	86-239
Dual CATV Coax	White	Card of 1	85-234
		Box of 100	86-234
	Almond	Card of 1	85-230
		Box of 100	86-230
	Ivory	Card of 1	85-240
		Box of 100	86-240
	White	Card of 1	85-235
		Box of 100	86-235
Dual CATV Coax	Almond	Card of 1	85-231
		Box of 100	86-231

Surface Jacks

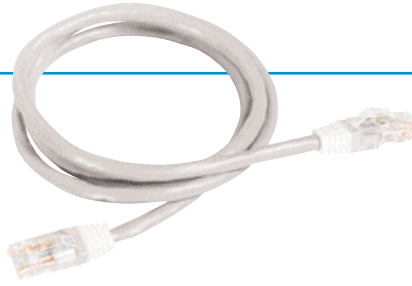


For initial installations where cable cannot be pulled through wall, or for replacement of modular four-prong jacks.

Description	Color	Qty.	Cat. No.
RJ-11, 2 Pair	White	Card of 1	85-244
RJ-11, 2 Pair	Ivory	Card of 1	85-245
RJ-11, 2 Pair	Almond	Card of 1	85-246



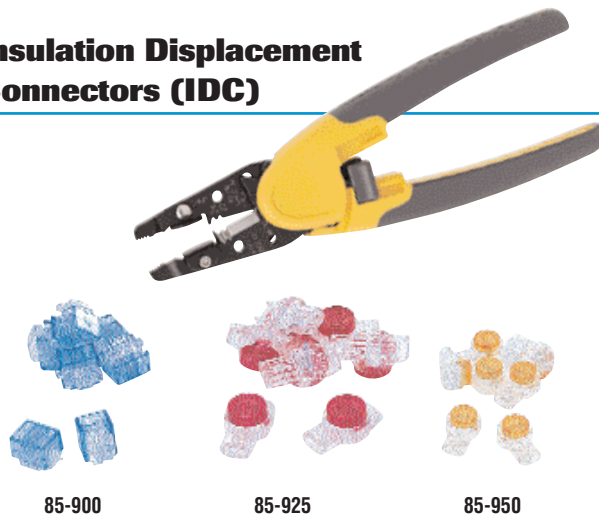
Patch Cables



- 350 MHz UTP Patch Cables provide quick and easy interconnection for system additions, moves or changes
- Slim, contoured boots provide strain relief and save space on over-crowded patch panels
- Snagless modular connectors
- Terminated to 568B wiring and color code configurations, with 24 AWG stranded copper conductors
- Five colors and six lengths for installation versatility

Description	Gray Cat. No.	Blue Cat. No.	Black Cat. No.	Yellow Cat. No.	Red Cat. No.
3 ft. (1m)	85-731	85-737	85-743	85-749	85-755
5 ft. (1.5m)	85-732	85-738	85-744	85-750	85-756
7 ft. (2.1m)	85-733	85-739	85-745	85-751	85-757
10 ft. (3m)	85-734	85-740	85-746	85-752	85-758
15 ft. (4.5m)	85-735	85-741	85-747	85-753	85-759
25 ft. (7.6m)	85-736	85-742	85-748	85-754	85-760

Insulation Displacement Connectors (IDC)



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

Description	Qty.	Cat. No.
UB-I, 2-Wire Tap Splice IDC, 22-26 AWG	25	85-900
	100	86-900
UR-I, 3-Wire Butt Splice IDC, 19-26 AWG	25	85-925
	100	86-925
UY-I, 2-Wire Butt Splice IDC, 22-26 AWG	25	85-950
	100	86-950
Kinetic Super™ Wire Stripper/Crimper	1	45-719

See page C-3 for IDC Crimp Tool.

TelCom Modular Plugs



- All plugs comply with FCC 68 guidelines and are UL Listed
- Plugs are capable of supporting the latest EIA/TIA cable system performance categories when installed in compliance with appropriate EIA/TIA standards and methods
- Plugs offered for round cable with solid conductors and for flat cable and stranded conductors
- Position and contact configurations cover popular styles

Description	Qty.	Cat. No.
6-Position 4-Contact Flat Stranded	25	85-351
	50	85-401
	100	86-401
6-Position 6-Contact Flat Stranded	25	85-352
	50	85-402
	100	86-402
6-Position 6-Contact DEC Flat Stranded	25	85-349
	50	85-399
	100	86-399
4-Position 4-Contact Flat Stranded (Handset)	25	85-348
	50	85-398
	100	86-398
8-Position 8-Contact Flat Stranded	25	85-353
	50	85-403
	100	86-403
8-Position 8-Contact Keyed Flat Stranded	25	85-347
	50	85-397
	100	86-397
6-Position 4-Contact Round Solid	25	85-344
	50	85-394
	100	86-394
6-Position 6-Contact Round Solid	25	85-345
	50	85-395
	100	86-395
6-Position 6-Contact DEC Round Solid	25	85-343
	50	85-393
	100	86-393
4-Position 4-Contact Round Solid (Handset)	25	85-342
	50	85-392
	100	86-392
8-Position 8-Contact CAT 6 Modular Plug	25	85-366
	50	85-346
	100	85-396
8-Position 8-Contact Round Solid	25	85-396
	50	85-396
	100	86-396
8-Position 8-Contact Keyed Round Solid	25	85-341
	50	85-391
	100	86-391

Simplex/Duplex 3mm Jacket Stripper



- Designed to remove the jacket from 3mm Simplex or Duplex (zip cord) fiber optic cable
- Form-ground, knife-type blades for accurate easy stripping without damaging the fiber or Kevlar® strength member
- Contoured, comfort-grip handles to reduce operator fatigue

Description	Cat. No.
Simplex/Duplex 3mm Jacket Stripper	45-349

Note: Kevlar® is a registered trademark of DuPont.

Stripmaster® Ribbon Fiber Jacket Stripper



- Removes jacket from Ribbon Fiber without damage to the Kevlar® strength member of the Ribbon Fiber

Note: Frame and blade-set sold separately.

Description	Cat. No.
Stripmaster® Wire Stripper Frame only	L-5620
Blade-set for use with Corning Plenum and Riser Ribbon Fiber Cable	LB-1152
Blade-set for use with Corning "Fanout" Ribbon Cable	LB-1153

Note: Kevlar® is a registered trademark of DuPont.

Serrated Cutter (For Kevlar®) with Breaker Notch



- Two-Step process significantly increases the life of this rugged tool
- Superior quality high-carbon stainless steel with molybdenum and vanadium provides the super-hard edges needed to stand up to the demands of today's market
- Textured cushioned-grip handles
- Value-priced for contractors, cable assembly houses, fiber installers/technicians and tool kits

Description	Cat. No.
Serrated Cutter w/Breaker Notch (Patent pending)	45-344

Note: Kevlar® is a registered trademark of DuPont.

MiniLite-Strip™ Optical Fiber Stripper



- Small strip notch engineered and precision-ground to strip 900 micron or 250 micron buffer coatings from 125 micron fiber
- Larger round strip notch machined to remove the 3mm outer jacket
- Strip notches pre-set and locked, no field adjustment necessary

Description	Cat. No.
MiniLite-Strip™ Optical Fiber Stripper	45-352

Lite-Strip™ Optical Fiber Stripper



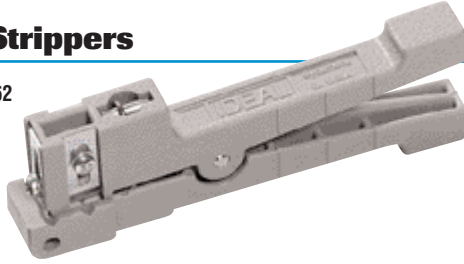
V-notch blades strip a wide range of outer cable jacket. Precision-ground, replaceable knife-type blades strip tight buffer tube insulations (900µm). Also strips mechanically strippable coatings from 250 microns to 900 microns.

- Replaceable precision-ground blades cleanly strip buffer coatings
- New funneled hole makes cable insertion easier
- Improved spring mounting returns handles to original position after every application
- One-step, 900 micron stripping hole provides broader stripping range
- Extra durable to withstand normal drops without requiring tool realignment
- New gauge color makes fiber and hole identification easier
- Improved comfort-grip handles for an easier, more comfortable stripping process

Description	Fiber Sizes	Cat. No.
Lite-Strip™ Optical Fiber Stripper (900µm/250µm)	125µm, 140µm	45-350
Transparent Wire Stop		LB-070

Cable Strippers

45-162



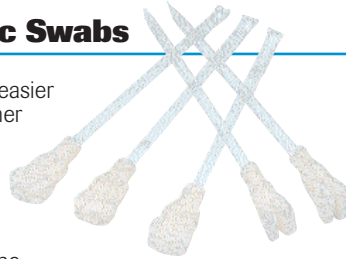
This lightweight, compact stripper is inexpensive and simple to operate.

- Adjustable blades can be set for any depth to help ensure nick-free strips
- Use with twisted-pair wire, tightly wrapped stranded cables, CATV cable, CB antenna cable, SO, SJ, SJT, and other types of flexible power cords
- Includes three straight and one round blade

Description	Cat. No.
Cable Stripper, up to 1/8 in. (3.2 mm) O.D., Gray	45-162
Cable Stripper, 1/8 in. (3.2 mm) to 7/32 in. (5.556 mm) O.D., Blue	45-163
Replacement Blade Set for 45-162, 45-163, 45-165	L-9225

Split-Tip Fiber Optic Swabs

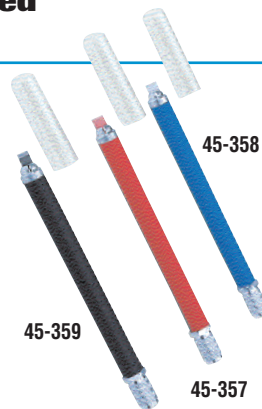
- Split-tip design cleans fiber easier and more efficiently than other methods
- Tube/handle is pre-loaded with 99% isopropyl alcohol
- A single swab can be used for many cleanings or until the alcohol is gone



Description	Qty.	Cat. No.
Split-Tip Fiber Optic Swabs	20/bag	45-360

DualScribe™ Double-Ended Fiber Optic Scribes

- Three professional quality blade styles to choose from to meet your specific needs – Ruby, Sapphire, Carbide
- Color-coded handles for quick, easy identification
Red – Ruby
Blue – Sapphire
Black – Carbide
- 30° single bevel – DualScribe™ reversible blade doubles tool life
- Soft non-slip grip provides precise control during scribing
- Clear safety cap protects the blades from damage when not in use



Description	Handle Color	Cat. No.
Ruby Blade Fiber Optic Scribe	Red	45-357
Sapphire Blade Fiber Optic Scribe	Blue	45-358
Carbide Blade Fiber Optic Scribe	Black	45-359

Plastic Polishing Fixture

- Universal fitting accepts all ST®, SC and FC connectors with 2.5mm ferrules
- Economically priced
- Grooved face for polishing efficiency
- Precision tool used by manufacturers, contractors and in tool kits



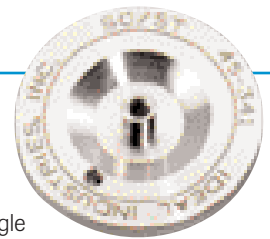
Description	Cat. No.
Plastic Polishing Fixture	45-342

Note: ST® is a registered trademark of AT&T.

Stainless Steel Polishing Fixture for Optical Fiber ST® and SC Type Connectors

Produces polished fiber optic ST® and SC type connectors for optimum connector performance.

- Precision-machined, stainless-steel disk provides accurate polishing angle for desired end face finish
- Stainless-steel hardness maintains long life and resists uneven wear
- Stepped surface reduces drag and friction for easier polishing

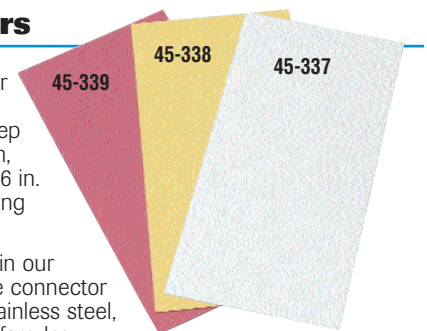


Description	Quantity	Cat. No.
Polishing Fixture for Optical Fiber SC/ST® Type Connectors	1	45-341

Note: ST® is a registered trademark of AT&T.

Polishing Films for Fiber Optic Connectors

- For optimum connector polishing results, we recommend a three-step procedure using 0.5µm, 3µm and 12µm 3 in. x 6 in. aluminum oxide polishing films
- Lot-to-lot consistency in our films means repeatable connector finishes on ceramic, stainless steel, plastic and composite ferrules
- A single sheet will typically yield 10 to 20 connectors when using the recommended 3-step procedure



Description	Color	Quantity	Cat. No.
0.5µm, 3" x 6", Aluminum Oxide	Ivory	20 films/sleeve	45-337
3.0µm, 3" x 6", Aluminum Oxide	Lt. Yellow	20 films/sleeve	45-338
12µm, 3" x 6", Aluminum Oxide	Lt. Red	20 films/sleeve	45-339

Fiber Inspection Microscope



- 100X magnification for viewing multimode connectors
- Includes 2.5mm connector "Universal Adapter" for FC, ST® and SC style connectors
- Oblique illumination provides excellent view of ferrule cleanliness and core condition
- Rugged, rubberized metal housing, precision glass optics and a built-in laser safety filter
- White LED illumination delivers 100,000 hours bulb life
- Soft padded carrying case included
- Battery life 48+ hours
- Compact size 7.5 in. x 1.96 in. x 1.18 in.
- Optional 200X Conversion Eyepiece threads on for viewing finish/polish of singlemode connectors

Description	Cat. No.
Fiber Inspection Microscope	45-332
1.25mm Connector Adapter	45-334
MTRJ-Style Connector Adapter	45-335
200X Conversion Eyepiece for Singlemode Connectors	45-336

Note: ST® is a registered trademark of AT&T.

VFF Visual Fault Finder

Laser light source used to locate breaks, faulty splices and crimps

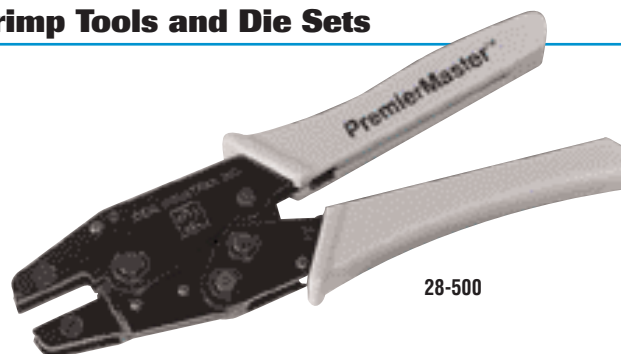
- **NEW** 2.5mm Universal Adapter for all ST®, SC and FC connectors
- Useful over a distance of 5km (3 miles)
- Two AA batteries provide over 30 hours of continuous use
- Slim, pocket-sized tool in rugged metal housing
- Nylon carrying case with belt loop included



Description	Cat. No.
Visual Fault Finder	VFF

Note: ST® is a registered trademark of AT&T.

PremierMaster™ Crimp Tools and Die Sets



28-500

Fiber Optic Crimp Die Sets were developed to be used in IDEAL PremierMaster™ Series Crimp Frame.

Description	Tool Cat. No.	Repl. Die Set Cat. No.
PremierMaster™ Crimp Tool Frame Only	28-500	—
AT&T/ST or SMA Fiber Optic conn. Hex 0.190 (4.83 mm), 0.090 (2.29 mm) Round, 0.105 (2.67 mm)	28-301	28-401
Amphenol SMA Fiber Optic conn. Hex 0.213 (5.54 mm), 0.178 (4.52 mm)	—	28-402
Amphenol SMA Fiber Optic conn. Hex 0.218 (5.54 mm), 0.151 (3.84 mm)	—	28-403
3M/ST Fiber Optic conn., Hex 0.153 (3.88 mm)	28-304	28-404
Fiber Optic conn. Hex 0.151 (3.84 mm), 0.178 (4.52 mm), 0.213 (5.41 mm)	28-305	28-405

Note: PremierMaster™ Die Sets not interchangeable with Crimpmaster™ frames.

Crimpmaster™ Fiber Optic Crimp Tools



30-489

Cat. No. 30-489 Fiber Optic Crimp Tool for SMA hex connectors. Triple hex cavity die for crimp dimensions of .151 (3.84 mm), .178 (4.52 mm) and .213(5.41 mm).

Cat. No. 30-490 AMP-Optimate Fiber Optic Crimp Tool for SMA connectors. A triple cavity 360 degrees round die is incorporated in this tool for crimp dimensions of .195 (4.95 mm), .165 (4.19 mm) and .138 (3.51 mm).

Description	Cat. No.
Crimpmaster™ for SMA Hex Connectors	30-489
Replacement Die Set	30-596
Crimpmaster™ for SMA Connectors and AMP Optimate	30-490
Replacement Die Set for AMP-Optimate-SMA	30-597

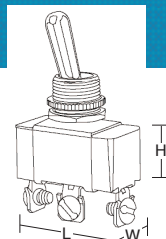


Supplies



Standard and Heavy-Duty Toggle Switches

- Great for power tool and motor control switch applications
- Rugged long-wearing solid brass/nickel-plated bushings
- ½ in. diameter mounting hole
- Bulk packaging of 100 available upon request



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 277 VAC	HP 125-250 VAC		
	Toggle Switch with On-Off Faceplate	SPST	On-Off	Screw	2	20	10	¾	1.13 x .57 x .61	774011
	Toggle Switch with On-Off Faceplate	SPST	On-Off	Spade	2	20	10	¾	1.13 x .57 x .61	774008
	Toggle Switch	SPST	On-Off	"O" Ring & Screw	2	20	10	¾	1.13 x .57 x .61	774010
	Toggle Switch w/boot	SPST	On-Off	Wire leads w/boot	2	20	20	¾	1.18 x .68 x .75	774111
	Toggle Switch	SPST	(On)-Off	Screw	2	20	10	¾	1.13 x .57 x .61	774093
	Toggle Switch	SPST	On-(Off)	Screw	2	20	10	¾	1.13 x .57 x .61	774088
	Toggle Switch	SPDT	On-On	Screw	3	20	10	¾	1.13 x .57 x .61	774012
	Toggle Switch	SPDT	On-On	Spade	3	20	10	¾	1.13 x .57 x .61	774100
	Toggle Switch	SPDT	On-Off-On	Screw	3	20	10	¾	1.13 x .57 x .61	774013
	Toggle Switch	SPDT	On-Off-On	Spade	3	20	10	¾	1.13 x .57 x .61	774027
	Toggle Switch	SPDT	On-Off-(On)	Screw	3	20	10	¾	1.13 x .57 x .61	774094
	Toggle Switch	SPDT	(On)-Off-(On)	Screw	3	20	10	¾	1.13 x .57 x .61	774009
	Heavy Duty Toggle Switch	DPST	On-Off	Screw	4	20	10	1½	1.30 x .76 x .80	774014
	Heavy Duty Toggle Switch	DPST	On-Off	Spade	4	20	10	1½	1.30 x .76 x .80	774005
	Heavy Duty Toggle Switch	DPST	(On)-Off	Screw	4	20	10	1½	1.30 x .76 x .80	774103
	Heavy Duty Toggle Switch	DPST	On-(Off)	Screw	4	20	10	1½	1.30 x .76 x .80	774105
	Heavy Duty Toggle Switch	DPDT	On-On	Screw	6	20	10	1½	1.30 x .76 x .80	774015
	Heavy Duty Toggle Switch	DPDT	On-On	Spade	6	20	10	1½	1.30 x .76 x .80	774091
	Heavy Duty Toggle Switch	DPDT	(On)-On	Screw	6	20	10	1½	1.30 x .76 x .80	774028
	Heavy Duty Toggle Switch	DPDT	On-Off-On	Screw	6	20	10	1½	1.30 x .76 x .80	774016
	Heavy Duty Toggle Switch	DPDT	On-Off-On	Spade	6	20	10	1½	1.30 x .76 x .80	774003
	Heavy Duty Toggle Switch	DPDT	(On)-Off-On	Screw	6	20	10	1½	1.30 x .76 x .80	774104
	Heavy Duty Toggle Switch	DPDT	(On)-Off-(On)	Screw	6	20	10	1½	1.30 x .76 x .80	774000
	Heavy Duty Toggle Switch	DPDT	(On)-Off-(On)	Spade	6	20	10	1½	1.30 x .76 x .80	774115
	Toggle Switch	3PST	On-Off	Screw	6	15	10*	¾	1.31 x 1.09 x .80	774106
	Toggle Switch	3PDT	On-On	Screw	9	15	10*	¾	1.31 x 1.09 x .80	774089
	Toggle Switch	3PDT	On-Off-On	Screw	9	15	10*	¾	1.31 x 1.09 x .80	774092
	Toggle Switch	4PST	On-Off	Screw	8	15	10*	¾	1.31 x 1.44 x .80	774108
	Toggle Switch	4PDT	On-On	Screw	12	15	10*	¾	1.31 x 1.44 x .80	774109
	Toggle Switch	4PDT	On-Off-On	Screw	12	15	10*	¾	1.31 x 1.44 x .80	774110

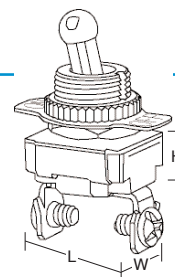
*250 VAC

**20A 120-277VAC, 7-1/2A 125VAC "L", 3/4HP 120-240 VAC

†Bulk Package of 100

Medium and Light-Duty Toggle Switches

- Great for household appliances and equipment
- Bat toggle switch, 774007, is ideal for battery-powered equipment including trimmers and lawn mowers
- Wire leads are #18 AWG, 6" stripped wire
- ½ in. diameter mounting hole
- Bulk packaging available upon request



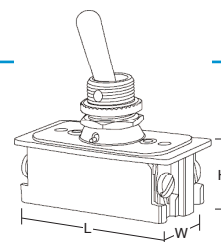
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating	Dimensions (L" x W" x H")	Cat. No.
	Bat Toggle with On-Off Faceplate	SPST	On-Off	Screw	2	6 Amps 120 VAC, 3 Amps 240 VAC	.69 x .55 x .34	774017
	Bat Toggle with On-Off Faceplate	SPST	On-Off	Wire Leads	2	4 Amps 250VAC/DC, 8 Amps 125VAC/DC, 10 Amps 125 VAC, ½ HP 125 VAC	.98 x .64 x .62	774018
	Bat Toggle*	SPST	On-Term Ground	Spade	1	21 Amps 14 VDC	.69 x .55 x .34	774007
	Short Ball Toggle Switch	SPST	On-Off	Screw	2	6 Amps 120 VAC, 3 Amps 240 VAC	.69 x .55 x .34	774001
	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
- Bulk packaging of 100 available upon request



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" x W" x H")	Cat. No.
						Amps 125V	Amps 250V	HP 125-250V		
	Heavy Duty Toggle Switch	SPST	On-Off	Screw	2	16	8	1	1.75 x .84 x .76	774095
	Heavy Duty Toggle Switch	DPST	On-Off	Screw	4	16	8	1	1.75 x .84 x .76	774096
	Heavy Duty Toggle Switch	DPST	On-Off	Screw	4	20	10	1½	2.09 x 1.00 x .90	774097



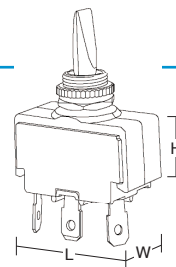
Toggle Switch Accessories

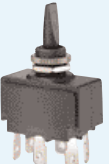
- Covers are great for outdoor and other environmentally tough conditions. They screw onto toggle switches to protect switches from moisture, dust and dirt
- Nickel indicator plate fits easily on most toggle switches to identify the On-Off positions
- Bulk packaging available upon request

Product	Description	Mounting	Dimensions	Quantity/Card	Cat. No.
	Toggle Switch Cover	15/32" UNS-2B	.93 x .62 Base Dia.	2	774020
	Indicator Plate, On-Off	15/32" Diameter	1.03 x .62 Hole Dia.	10	774099

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
- ½ in. diameter mounting hole
- Bulk packaging available upon request



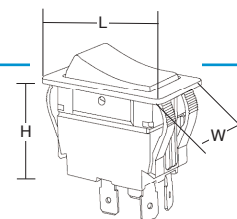
Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating		Dimensions (L" x W" x H")	Cat. No.
						Amps 125 VAC	Amps 250 VAC		
	Double Insulated, Plastic Toggle Switch	SPST	On-Off	Screw	2	20	10	1.37 x .76 x .94	774019
	Double Insulated, Plastic Toggle Switch	SPST	On-Off	Spade	2	20	10	1.37 x .76 x .94	774098
	Double Insulated, Plastic Toggle Switch	SPDT	(On)-Off-(On)	Spade	3	20	10	1.37 x .76 x .94	774004
	Double Insulated, Plastic Toggle Switch	DPDT	(On)-Off-(On)	Spade	6	20	10	1.37 x .76 x .94	774006



() Denotes momentary action

Full-Size Rocker Switches

- For commercial appliances, industrial controls, automotive and marine applications
- Moisture- and dust- resistant
- Suitable for low-voltage DC applications
- Recommended .830" × 1.450" mounting hole, .125" panel thickness
- Bulk packaging available upon request



Product	Description	Poles	Circuitry	Termination Style	No. of Terminals	Rating			Dimensions (L" × W" × H")	Cat. No.
						Amps 125 VAC	Amps 277 VAC	HP 125-250 VAC		
	Black Rocker Switch	SPST	On-Off	Spade	2	20	15	2	1.70 × .97 × 1.09	774045
	Black Rocker Switch	DPST	(On)-Off	Spade	4	20	15	2	1.70 × .97 × 1.09	774120
	Black Rocker Switch	DPST	On-(Off)	Spade	4	20	15	2	1.70 × .97 × 1.09	774121
	Black Rocker Switch	DPDT	On-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774050
	Black Rocker Switch	DPDT	(On)-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774122
	Black Rocker Switch	DPDT	On-Off-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774040
	Black Rocker Switch	DPDT	(On)-Off-On	Spade	6	20	15	2	1.70 × .97 × 1.09	774040BK†
	Black Rocker Switch	DPDT	(On)-Off-(On)	Spade	6	20	15	2	1.70 × .97 × 1.09	774123
	Black Rocker Switch***	DPDT	(On)-Off-(On)	Spade	6	15	10*	¾**	1.70 × .97 × 1.09	774054
										774054BK†
	Red Lighted Rocker***	DPST	On-Off	Spade	4	15	10*	¾**	1.70 × .97 × 1.09	774056
	Amber Lighted Rocker***	DPST	On-Off	Spade	4	15	10*	¾**	1.70 × .97 × 1.09	774055



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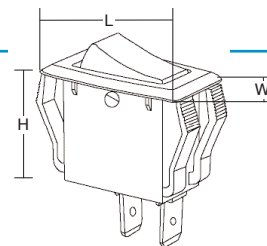
*Amps 250 VAC

**HP 125-250VAC

†Bulk package of 100

Appliance Rocker Switches

- Great for home appliances, computer equipment, automotive and industrial controls
- Appliance Rockers fit standard .55" × 1.12" panel cut outs
- Miniature Rockers fit .520" × .776" panel cut outs
- Plain and lighted versions available
- Bulk packaging of 100 available upon request



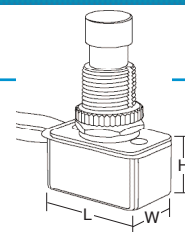
Product	Description	Rocker	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions (L" × W" × H")	Cat. No.
	Appliance Rocker Switch	Black	SPST	On-Off	Spade	2	16 Amp ½ HP 125 VAC, 10 Amp ½ HP 250 VAC	1.24 × .68 × .77	774038
			SPDT	On-On	Spade	3			774049
			SPDT	On-Off-On	Spade	3			774059
	Appliance Rocker Switch	Red Lighted	SPST	On-Off	Spade	3*	16 Amp ½ HP 125 VAC, 10 Amp ½ HP 250 VAC	1.24 × .68 × .77	774039
	Appliance Rocker Switch**	Visi-Red, Printed On-Off Vertical	SPST	On-Off	Spade	2	16 Amp 125 VAC, 10 Amp 250 VAC, ¾HP 125-250 VAC	1.24 × .68 × .72	774047
	Appliance Rocker Switch**	Visi-Red	SPST	On-Off	Spade	2	16 Amp 125 VAC, 10 Amp 250 VAC, ¾HP 125-250VAC	1.24 × .68 × .72	774052
	Miniature Rocker Switch	Red Lighted	SPST	On-Off	Spade	3*	16 Amp ½ HP 125 VAC, 10 Amp ½ HP 250 VAC	.83 × .59 × .50	774048

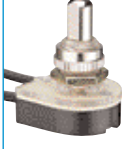
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*3rd terminal to power lighted rocker

Push-Button Switches

- Great for household appliances, lamps and motor controls
- Available in normally open, normally closed and standard On-Off circuitry
- Wire leads are #18 AWG, 6" stripped wire
- ½ in. diameter mounting hole
- Bulk packaging of 100 available upon request



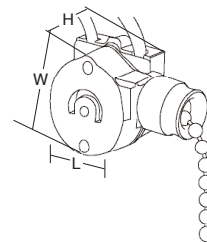
Product	Description	Actuator	Poles	Circuitry	Termination Style	No. of Terminals	Ratings	Dimensions (L" x W" x H")	Cat. No.
	Miniature Push-Button Switch*	Black Plastic	SPST	On-Off	Wire Lead	2	6 Amp 125VAC, 1 Amp 250VAC, 10 Amp 14VDC	.66 x .53 x .32	774082
	Round Body Push-Button Switch**	Black Plastic	SPST NO	(On)-Off	Screw	2	¾ Amp 125VAC/DC, ¼ Amp 250VAC/DC	.66 D x 1.89	774083
	Round Body Push-Button Switch**	Black Plastic	SPST NC	On-(Off)	Screw	2	¾ Amp 125VAC/DC, ¼ Amp 250VAC/DC	.66 D x 1.89	774084
	Momentary Contact Push-Button Switch	Black Plastic	SPST NO	(On)-Off	Screw	2	6 Amp 120VAC, 3 Amp 240VAC	.88 x .54 x .35	774022
	Momentary Contact Push-Button Switch	Red Plastic	SPST NC	On-(Off)	Screw	2	3 Amps 120VAC, 1.5 Amp 240VAC	.88 x .54 x .35	774023
	Maintained Contact Push-Button Switch	Black Plastic	SPST	On-Off	Wire Leads	2	8 Amp 125VAC/DC, 4 Amp 250VAC/DC, 10 Amp 125VAC, ½ HP 125VAC	.98 x .64 x .62	774021
	Maintained Contact Push-Button Switch*	Nickel Plated	SPST	On-Off	Wire Leads	2	6 Amp 125VAC, 3 Amp 250VAC	.97 x .80 x .36	774024
	Maintained Contact Push-Button Switch*	Brass Plated	SPST	On-Off	Wire Leads	2	6 Amp 125VAC, 3 Amp 250VAC	.97 x .80 x .36	774025
	Maintained Contact Push-Button Switch**	Nickel Plated	SPST	On-Off	Screw	2	6 Amp 125VAC/DC, 3 Amp 250VAC/DC	1.18 x .52 x .54	774080
	Maintained Contact Push-Button Switch**	Nickel Plated	SPST	On-Off	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	.92 x .66 x .46	774081
	Momentary Contact Push-Button Switch**	Nickel Plated	SPST NO	(On)-Off	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	1.38 x .58 x .60	774085
	Momentary Contact Push-Button Switch**	Nickel Plated	SPST NC	On-(Off)	Screw	2	15 Amp 125VAC, 10 Amp 250VAC	1.38 x .58 x .60	774086

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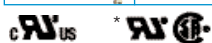
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Lever and Pull Chain Switches

- Use for ceiling fixtures, lamps and fans
- Wire leads are #18 AWG, 6" stripped wire
- Push in connectors for #18 AWG wire
- $\frac{1}{32}$ in. diameter mounting hole
- Bulk packaging of 100 available upon request

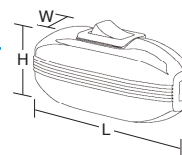


Product	Description	Pull-Chain Color	Poles	Circuitry	Termination Type	Circuit	Rating			Dimensions (L" x W" x H")	Cat. No.
							Amps 125 VAC	Amps 250 VAC	Amps 125 VL		
	All-Angle Lever Switch*	Nickel	SPST	On-Off	Wire Leads	2 Pos - 2 Wire	6	3	—	1.50 x 1.28 x .50	774035
	Pull Chain	Nickel	SPST	On-Off	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
	2-Speed Pull Chain*	Brass	SPDT	Off-On-On	Push-In	3 Pos - 3 Wire	6	3	6	1.43 x 1.25 x .73	774033
	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



Cord Switches

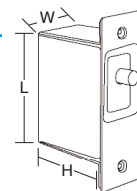
- Place your lighting controls in a convenient location with a lamp cord toggle switch
- Available in brown or ivory
- Bulk packaging available upon request



Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions (L" x W" x H")	Cat. No.
	Cord Switch	Ivory	SPST	On-Off	Pass Thru	6 Amp 125VAC, 3 Amp 250VAC, 3 Amp 125VT	1.38 x .62 x .73	774072
	Cord Switch	Brown	SPST	On-Off	Pass Thru	6 Amp 125VAC, 3 Amp 250VAC, 3 Amp 125VT	1.38 x .62 x .73	774071
	Cord Toggle Switch	Ivory	SPST	On-Off	Pass Thru	10 Amp 125VAC, 6 Amp 250VAC	2.50 x .83 x 1.28	774074
	Cord Toggle Switch	Brown	SPST	On-Off	Pass Thru	10 Amp 125VAC, 6 Amp 250VAC	2.50 x .83 x 1.28	774073

Door and Slide Switches

- Standard slide switch fits $\frac{5}{16}$ " $\times$ $\frac{7}{8}$ " opening
- Door switches are great for closets, turning the light on when the door is open and off when it is closed
- Door switch kit comes with metal box, cover plate and mounting hardware

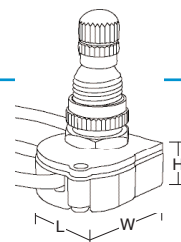


Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions (L" $\times$ W" $\times$ H")	Cat. No.
	Slide Switch	Black Slide	SPST	On-Off	Solder Terminals	10 Amp 125VAC, 5 Amp 250VAC	1.38 $\times$.44 $\times$.30	774051
	AC/DC Door Switch Kit	White Button	SPST	Normally On-(Off)	Wire Leads	10 Amp $\frac{1}{2}$ HP 125/250VAC	1.25 $\times$ 2.75 $\times$ 2.0	774026K
	Door Replacement Switch	White Button	SPST	Normally On-(Off)	Wire Leads	10 Amp $\frac{1}{2}$ HP 125/250VAC	1.17 $\times$.69 $\times$.98	774026

  () Denotes momentary action †Bulk package of 25

Rotary Switches

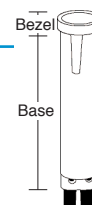
- Rotary switches are perfect for household appliances, ceiling fixtures and lamps
- Single or three-position switches available
- #18 AWG, 6" stripped wire leads
- Bulk packaging available upon request



Product	Description	Color	Poles	Circuitry	Termination Style	Ratings	Dimensions (L" $\times$ W" $\times$ H")	Cat. No.
	Rotary Switch	Black Plastic	SPST	On-Off	Wire Leads	3 Amp 125VAC, 1.5 Amp 250VAC	.60 Dia $\times$.730 overall height	774063B
	Rotary Switch	Brass Plated	SPST	On-Off	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.97 $\times$.80 $\times$.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 $\times$ 1.03 $\times$.34	774062
	Rotary Switch	Black Plastic	SPST	On-Off	Wire Leads	6 Amp 125VAC, 3 Amp 250VAC	.89 $\times$.79 $\times$.31	774069

Miniature Indicator Lights

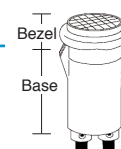
- Nylon body with flush transparent polycarbonate lens
- 6 in. wire leads
- $\frac{5}{16}$ in. mounting diameter
- UL and CSA certified
- Bulk packaging available upon request



Product	Description	Lens Color	Lamp Voltage	Lamp Type	Termination Style	Height (Base" x Bezel")	Cat. No.
	Miniature Indicator Light	Red	125V	Neon	6" Wire Leads	1.43 x .13	777131
	Miniature Indicator Light	Green	125V	Neon	6" Wire Leads	1.43 x .13	777231
	Miniature Indicator Light	Amber	125V	Neon	6" Wire Leads	1.43 x .13	777331

Flush Indicator Lights

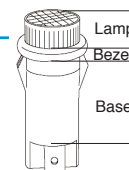
- Nylon body with flush transparent polycarbonate lens and stainless steel bezel
- 6 in. wire leads
- $\frac{1}{2}$ in. mounting diameter
- UL, CSA and VDE certified
- Bulk packaging available upon request



Product	Description	Lens Color	Lamp Voltage	Lamp Type	Termination Style	Height (Base" x Bezel")	Cat. No.
	Flush Indicator Light	Red	14V	Incandescent	6" Wire Leads	.91 x .10	775121*
	Flush Indicator Light	Red	28V	Incandescent	6" Wire Leads	.91 x .10	776121*
	Flush Indicator Light	Red	125V	Neon	6" Wire Leads	.91 x .10	777121*
	Flush Indicator Light	Green	125V	Neon	6" Wire Leads	.91 x .10	777221*
	Flush Indicator Light	Amber	125V	Neon	6" Wire Leads	.91 x .10	777321*

Raised Indicator Lights

- Nylon body with raised transparent polycarbonate lens and stainless steel bezel
- $\frac{1}{2}$ in. mounting diameter
- UL and CSA certified
- Bulk packaging available upon request

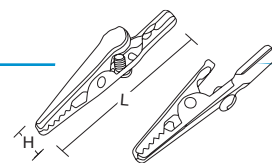


Product	Description	Lens Color	Lamp Voltage	Lamp Type	Termination Style	Height (Base" x Bezel" x Lamp")	Cat. No.
	Raised Indicator Light	Red	14V	Incandescent	6" Wire Leads	.91 x .10 x .20	775111*
	Raised Indicator Light	Red	28V	Incandescent	6" Wire Leads	.91 x .10 x .20	776111*
	Raised Indicator Light	Green	28V	Incandescent	6" Wire Leads	.91 x .10 x .20	776211*
	Raised Indicator Light	Amber	28V	Incandescent	6" Wire Leads	.91 x .10 x .20	776311*
	Raised Indicator Light	Red	125V	Neon	6" Wire Leads	.91 x .10 x .20	777111*
	Raised Indicator Light	Green	125V	Neon	6" Wire Leads	.91 x .10 x .20	777211*
	Raised Indicator Light	Amber	125V	Neon	6" Wire Leads	.91 x .10 x .20	777311*
	Raised Indicator Light	Blue	125V	Neon	6" Wire Leads	.91 x .10 x .20	777411*
	Raised Indicator Light	Clear	125V	Neon	6" Wire Leads	.91 x .10 x .20	777511*
	Raised Indicator Light	Red	250V	Neon	6" Wire Leads	.91 x .10 x .20	778111*
	Raised Indicator Light	Green	250V	Neon	6" Wire Leads	.91 x .10 x .20	778211*
	Raised Indicator Light	Red	28V	Incandescent	.187" Spade	1.09 x .10 x .20	776112
	Raised Indicator Light	Red	125V	Neon	.187" Spade	1.09 x .10 x .20	777112
	Raised Indicator Light	Green	125V	Neon	.187" Spade	1.09 x .10 x .20	777212

*UL, CSA and VDE certified

Alligator Clips

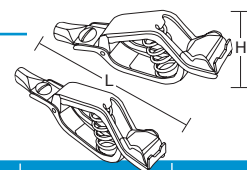
- Great for temporary connections, testing wires and troubleshooting projects
- Spring-loaded, grab-tight jaws make these clips quick and easy-to-use
- For screw and/or crimp connections



Product	Description	Amps	Dimensions (L" × H")	Jaw Opening	Wire Gauge	Quantity	Cat. No.
	Non-Insulated	—	2 × 7/16	5/16"	#22 - #14	4	770200L
	Insulated Barrel	—	2 1/2 × 7/16	5/16"	#22 - #14	1 Red/1 Black	770204L
	Fully Insulated	—	2 1/2 × 7/16	5/16"	#22 - #14	1 Red/1 Black	770205L

Battery Clips

- Great for testing and many other electrical applications
- Insulated grips are color-coded for positive (red) and negative (black) identification
- For screw and/or crimp connections

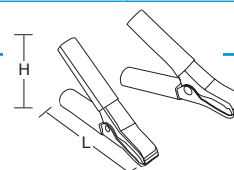


Product	Description	Amps	Dimensions (L" × H")	Jaw Opening	Wire Diameter	Quantity	Cat. No.
	Miniature General Purpose Clip	5	1 1/32 × 15/32	5/16"	3/64"	2	770218L
	General Purpose Clip	10	2 × 5/8	1/2"	3/16"	1 Red/1 Black	170207L
	Test and Battery Clip	20	2 1/2 × 5/8	5/8"	3/16"	1 Red/1 Black	170208L
	Test and Battery Clip	30	2 1/2 × 5/8	5/8"	3/16"	1 Red/1 Black	170209L
	Copper Test & Battery Clips*	40	2 7/16 × 1 1/16	5/8"	3/16"	2	770217L
	Copper Test & Battery Clips*	75	3 × 15/16	3/4"	9/32"	2	770216L
	Copper Test & Battery Clips*	100	4 5/16 × 1 3/16	1 1/16"	1 1/32"	2	770215L
	Insulated Grips for 770217L	—	3 1/2 × 3/4 ID	—	—	1 Red/1 Black	770223L
	Insulated Grips for 770216L	—	3 1/2 × 1 1/4 ID	—	—	1 Red/1 Black	770219L
	Insulated Grips for 770215L	—	5 × 1 13/32 ID	—	—	1 Red/1 Black	770221L

*Insulators sold separately

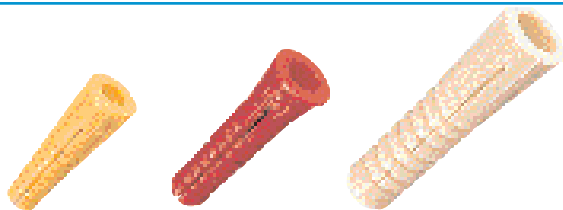
Plier-Type Battery Clamps

- Great for battery charging and test equipment
- Insulated grips are color-coded for positive (red) and negative (black) identification
- For crimp or solder connections



Product	Description	Amps	Dimensions (L × H)	Jaw Opening	Wire Gauge	Quantity	Cat. No.
	Plier-Type Battery Clip	50	2 7/8" × 2"	1 1/8"	5/32"	1 Red/1 Black	770213L
	Plier-Type Battery Clip	75	2 7/8" × 2"	1 1/8"	9/32"	1 Red/1 Black	770214L

Flange-Type Plastic Anchors



- Multi-purpose use in solid materials or hollow walls, will not fall through
- For use with sheet-metal or wood screws
- High-impact plastic construction resists moisture, corrosion and deterioration

Description	Screw Size	Drill Size (In.)	Quantity	Cat. No.
Yellow – 7/8 in. long	6-8-10	3/16	100	90-041
Red – 1 in. long	10-12	1/4	100	90-042
White – 1-1/2 in. long	14-16	5/16	50	90-044

Flange-Type Plastic Anchor Kits

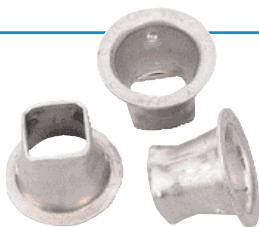


- Kits include flange-type anchors, slotted/Phillips head screws and masonry bit
- Convenient plastic storage container

Contents	Cat. No.
100 # 6-8-10 x 7/8 in. Flange-type anchors, 100 # 8 x 1 in. combo-head, sheet-metal screws & 1-3/16 in. masonry bit (carbide-tipped)	90-051
100 # 10-12 x 1 in. Flange-type anchors, 100 # 10 x 1-1/4 in. combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-052
100 # 10-12 x 1 in. Flange-type anchors, 100 # 12 x 1 in. combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-053
40 # 14-16 x 1-1/2 in. Flange-type anchors, 40 # 14 x 1-1/2 in. combo-head, sheet-metal screws 1-5/16 in. masonry bit (carbide-tipped)	90-054
100 # 10-12 x 1 in. Flange-type anchors, 100 # 10 x 1 in. combo-head, sheet-metal screws & 1-1/4 in. masonry bit (carbide-tipped)	90-055

NM Cable Connectors

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



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

Grommets

- Installs instantly! Flexible PVC grommets side slotted 1/16" 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

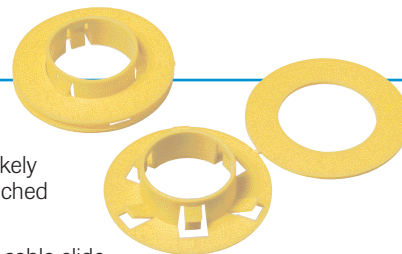


Description	Quantity	Cat. No.
1/4" Grommets	6	774114
1/4" Grommets	25	774116
1/4" Grommets	1,000	774114BK
3/8" Grommets	5	774138
3/8" Grommets	25	774137
1/2" Grommets	4	774112
1/2" Grommets	25	774113
3/4" Grommets	3	774134
3/4" Grommets	25	774136

*Buchanan branded

Universal Stud Bushings

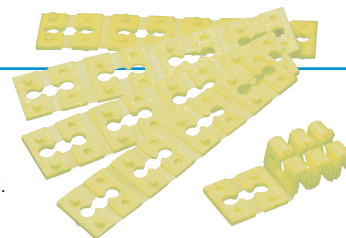
- Non-metallic stud bushing fits all hole configurations you are likely to encounter in pre-punched steel studs
- Long pulls of AC or MC cable slide smoothly through the bushing, make a difficult job easier
- Protects wire without falling out of the hole



Description	Quantity	Cat. No.
Stud Bushing	25	772271

Spacer Shims

- Eliminates the need to cut plate screws for "GFCI" decorator devices when installing on tile, marble, etc.
- Supports loose outlets
- Prevents broken face places
- Snaps over #6, #8, #10 screws
- Also works as a shim



Description	Quantity	Cat. No.
Caterpillar	5	772450
Caterpillar	25	172451
Caterpillar	500	772451

How to Select Resurfacer Grade

Small Motor and Pocket Resurfacers

Grade code letters designate the following grade combinations:

- | | |
|------------------------|------------------------|
| A Medium/Finish | G Coarse/Medium |
| B Coarse/Finish | H Medium/Polish |
| D Finish/Polish | |

All Other Resurfacers

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

- X** Extra coarse—very fast cutting, for “hogging” off excessive copper
- C** Coarse—fast cutting
- M** Medium—for general use, high mica, small ridges and burns
- F** Finish—for use after the three grades above, for periodic application and for removing small burns and ridges immediately after their appearance
- 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 Size

Size is always written length x width x thickness (working face area x depth of stone). For handle types, the handle is mounted parallel to the first dimension. Always use a resurfacer with the largest face possible (length x width). Thickness should be governed by clearance around commutator or ring.

Commutator Resurfacers

The resurfacer should have a width of approximately 3/4 the length of the commutator bar and as long as will conveniently go between the brush riggings. For periodic application, three or four sizes are generally sufficient. After determining approximate dimensions, select nearest standard size and type.

Slip Ring Resurfacers

When space permits, use a resurfacer about 1 in. wider than the face width of the ring. Length should be at least three times greater than the longest flat spot to bridge over and ensure a true ring.

Small Motor-Type Resurfacer

- Different grades of stone on each end
- 10 in. handle
- For use on small fractional horsepower motors

Sizes (Inches)	Grades	Cat. No.
3/4 x 1/2 x 3/8	A, B, D, G, H	80-012*

*Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.



Tool-Type Resurfacer

- For use in lathe-turning device
- Two resurfacers required for each grinder

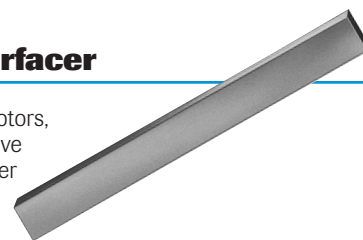


Sizes (Inches)	Grades	Cat. No.
3/4 x 3/4 x 3	C, M, F, P	80-504*
1 x 1-1/2 x 6-1/2		80-454*
1 x 2 x 8		80-461*
2 x 2 x 8		80-475*

*Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Pencil-Type Resurfacer

- For use on fans, signal motors, auto generators, locomotive headlight motors and other fractional horsepower motors



Sizes (Inches)	Grades	Cat. No.
5/8 x 3/8 x 6	C, M, F, P	80-075*

*Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Tramway-Handle Resurfacer

- Handle shaped to ensure secure grip
- 10-1/2 in. handle permanently mounted at 45° angle

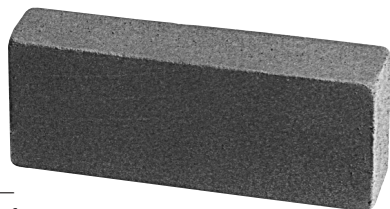


Sizes (Inches)	Grades	Cat. No.
2 x 1-1/2 x 2	C, M, F, P	80-255*
2 x 2 x 2		80-265*

*Add grade letter suffix to Cat. No. Please allow 2-3 weeks for delivery.

Powr-Polish™ Flexible Abrasive

- Fine-grain, non-dusting abrasive held together by a flexible bond
- Serves as both commutator cleaner and burnisher
- Removes dirt and grease—imparts super-finished surface
- Non-conductive and non-loading



Sizes (Inches)	Cat. No.
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.

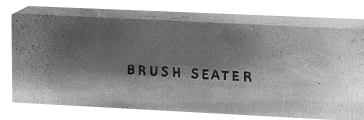
Commutator Cement

- Non-conductor for filling holes in commutator bars and pitted mica
- Highly adhesive and non-shrinking
- Resists fire, oils and acids



Description	Cat. No.
Commutator Cement (1/2 lb. jar)	54-007

Brush Seater and Commutator Cleaner



- Gentle acting abrasive for seating carbon brushes and cleaning commutators and slip rings
- Soft, loosely bound grain produces a scouring effect when held against commutator
- Will not remove or scratch copper
- Self-cleaning
- Available in soft(S), medium(M) and hard(H) grades

Sizes (Inches)	Grades	Cat. No.
1/4 x 1/4 x 4-3/4	M, H	23-001*
1/2 x 1/4 x 4-3/4	M, H	23-002*
3/8 x 3/8 x 4-3/4	M, H	23-003*
1/2 x 3/8 x 4-3/4	S, M, H	23-004*
1/2 x 1/2 x 4-3/4	S, M, H	23-005*
5/8 x 1/2 x 4-3/4	S, M, H	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, H	23-027*
1 x 1 x 4-3/4	—	23-035S
2 x 1 x 4-3/4	—	23-036S
3 x 2 x 4	—	23-039S
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.

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.

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L-4421M	C-13	LB-1001M	C-13	TL-100	E-3, E-4, E-5, E-37				
L-4422	C-12, C-13	LB-1002	C-12, C-13	TL-102	E-10, E-25, E-37				
L-4452	C-12	LB-1002M	C-13	TL-104	E-12, E-13, E-37				
L-4994	C-12, C-13	LB-1003	C-12, C-13	TL-252	E-37				
L-5210	C-8, C-9	LB-1004	C-12, C-13	TL-42	E-37				

Customer Service/ Technical Support

It has long been a goal at IDEAL to serve our customers and distributors more effectively than anyone in the industry. A promise of helping our customers and distributors in any way we can comes with every product we ship.

- Customer service and technical support representatives available Monday through Friday, 7 a.m. to 7 p.m. CST
- Complete offering of marketing/sales literature within 24 hours of request

Merchandising

Point-of-purchase communication is an important aspect of the IDEAL sales strategy. We are committed to helping our distributors move our products off their shelves. To do that we've developed a variety of exciting, thoughtful ways to increase a store's association with IDEAL and build repeat customers.



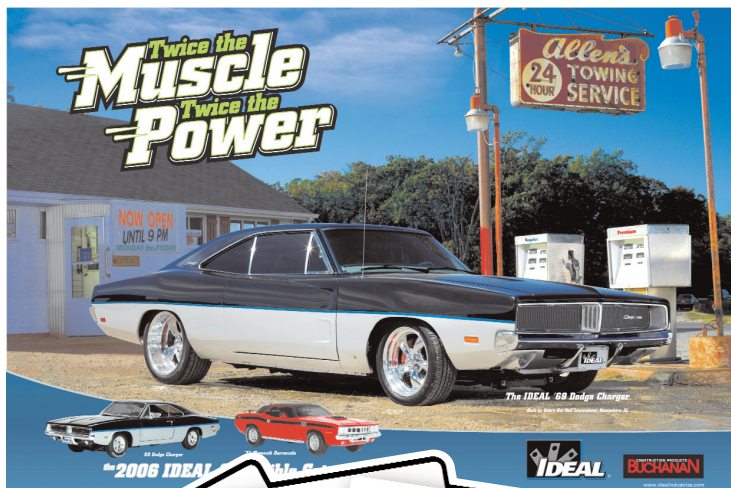
Promotions

There is no substitute for the impact that an effectively managed national promotion can achieve. Our record of exciting and successful promotions is second-to-none in the industry. The annual Collectible Toy Truck promotion, for example, has become a phenomenon of its own and helps sell millions of wire connectors. With a well-designed promotion, everyone wins.

Distribution Center

Our new state-of-the-art facility located at IDEAL headquarters in Sycamore, IL is responsible for making sure our products arrive on time and as ordered to our customers around the world. Our employees manage an inventory of thousands of different products, ensuring they're available when our customers need them. Orders received by 1 p.m. are normally shipped by 5 p.m. of the same day.





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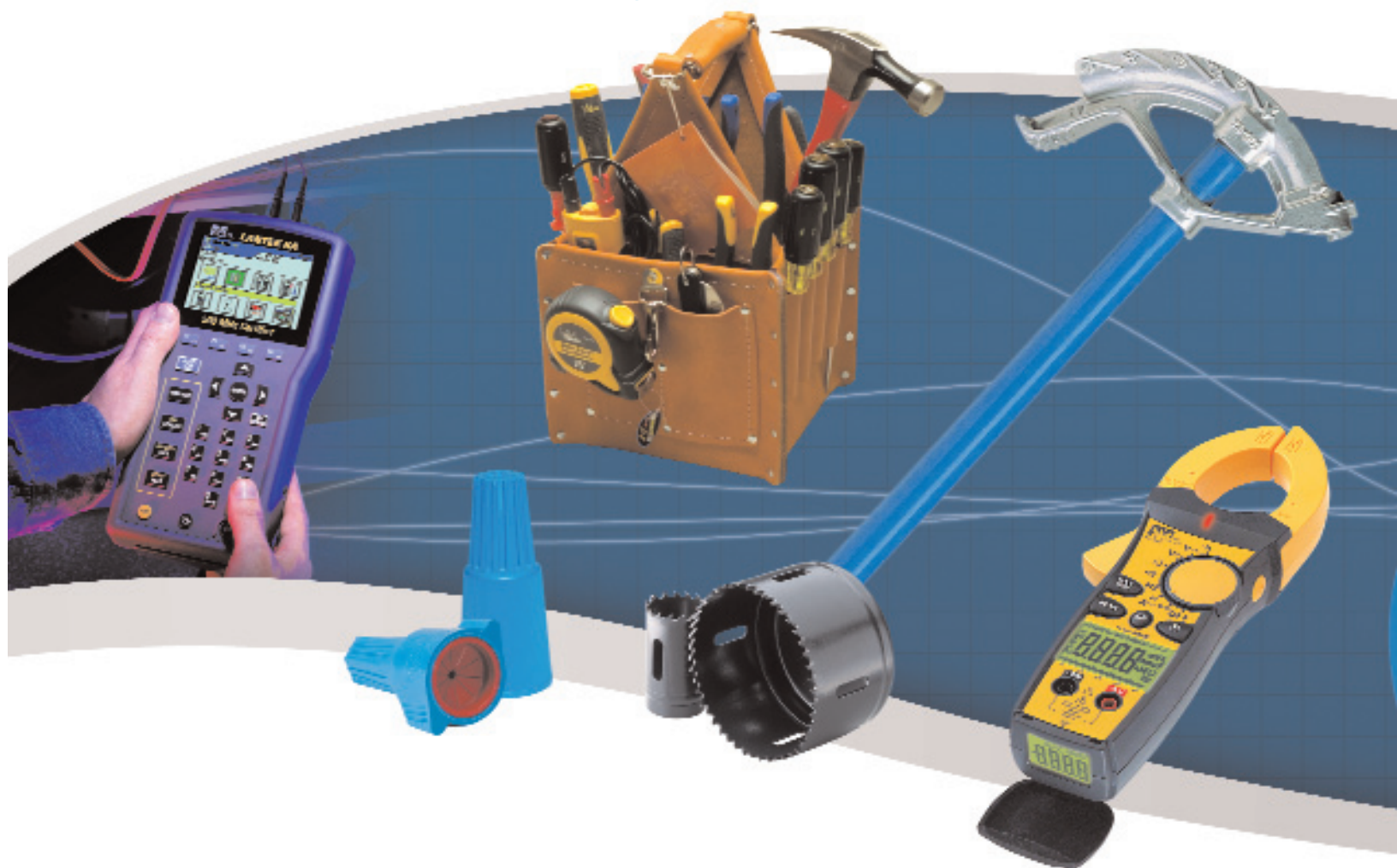
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