IDEAL ELECTRICAL

FULL-LINE CATALOG

WIRE TERMINATION | TOOLS & SUPPLIES | TEST & MEASUREMENT | DATACOM

IDEAL
TWISTER PROFLEX
WIRE CONNECTORS
INDUSTRY LEADER:
FLEXIBLE SKIRT
TWISTER PROFLEX MINI
WIRE CONNECTORS
TWISTER
WIRE CONNECTORS
CONECTORES DE CABLES
CONNECTEURS DE CABLES
SWEPT WIRE
Transmitter
0-600V AC/DC
SureTrace
Circuit Tracer
TR-855
600 Count Display
AC/DC
VOLTAGE TESTER
61-557
IP42

THE ELECTRICIAN'S

CHAMPION™ IDEAL®

From Cut to Test, IDEAL Electrical is the only brand that touches every part of the process.

TWISTER® WIRE CONNECTOR
Page A-7

THE ELECTRICIAN'S CHAMPION™ IDEAL®

TABLE OF CONTENTS

WIRE TERMINATION

Twist-on Wire Connectors A-6
Twister® Wire Connectors A-7
WeatherProof™ & UnderGround™ Wire Connectors A-8
BUCHANAN Wire Connectors A-10
In-Sure® Push-In Wire Connectors A-13
SpliceLine® In-Line Wire Connectors A-13
PowerPlug® Luminaire Disconnects A-15
Grounding Products A-17
SLK® Disconnect Fuse Kits A-22
Crimp Terminals & Splices A-29
Terminal Strips A-33
BUCHANAN B-TAP® Connectors A-36

TOOLS & SUPPLIES

Fish Tapes & Accessories B-3
Fishing Poles B-7
Wire Pulling Lubricants & Accessories B-8
Pulling Supplies B-12
Conduit Benders B-14
Wire Strippers B-16
Pliers B-21
Miscellaneous Hand Tools B-24
Cable Cutters B-27
Screwdrivers B-29
Industrial Bits & Accessories B-38
Insulated Hand Tools B-40
Tool Carriers, Bags & Backpacks B-47
Hand Tool Kits B-53
Power Tool Accessories B-58
Electrical Tape & Sealant B-70
Wire Management B-77

TOOLS & SUPPLIES

Heat Shrink B-89
Lockout/Tagout B-94

AEROSPACE

Stripmaster® Wire Strippers C-4
Wire Strippers C-9
Pneumatic Wire Strippers C-15

TEST & MEASUREMENT

Circuit Tracers D-3
Circuit Breaker Finders D-7
Circuit Analyzers D-10
Clamp Meters D-13
Multimeters D-19
Voltage Testers D-23
Receptacle Testers D-24
Non-Contact Voltage Testers D-29
Infrared Thermometers D-32
Specialty Testers D-34
Accessories D-36

DATACOM/NETWORKS

Testers E-3
Compression Tools & Connectors E-4
Crimp Tools/Die Sets E-6
Tools E-8
Modular Plugs E-9
Low-Voltage IDC E-11
Wire Strippers D-12
Splitters E-13
Kits E-14
Fiber Optics E-17

WIRE TERMINATION

INGENUITY & PERFORMANCE

From the introduction of our first twist-on wire connector in 1924, IDEAL has been the leading force in wire termination technology. Through ingenuity, proven performance and innovative engineering, IDEAL continues to lead the electrical industry with products that deliver more than the price paid.

TWIST-ON WIRE CONNECTORS

- Wire-Nut® Wire Connectors A-5
- Wing-Nut® Wire Connectors A-6
- Twister® Wire Connectors A-7
- Twister® Pro & ProFLEX™ Wire Connectors A-7
- WeatherProof & UnderGround Wire Connectors A-8
- Twister® Al/Cu Wire Connectors A-9
- B-CAP® Wire Connectors A-10
- B-TWIST™ Wire Connectors A-10
- WireTwist®/WingTwist® Wire Connectors A-11

PUSH-IN WIRE CONNECTORS

- In-Sure® Push-In Lever Wire Connectors A-14
- In-Sure® MC-PCS Wire Connectors A-14
- In-Sure® Push-In Wire Connectors A-15
- SpliceLine® In-Line Wire Connectors A-15

LUMINAIRE DISCONNECTS

- PowerPlug® Luminaire Disconnects ... A-17

GROUNDING PRODUCTS

- Grounding Pigtails A-19
- Grounding Screws A-20
- Non-Grounding Pigtails A-20
- Grounding Wire Connectors A-20

CRIMP CONNECTORS A-21

STREETLIGHT KITS

- SLK® A-23
- BUCHANAN Streetlight Kits A-27

CRIMP TERMINALS

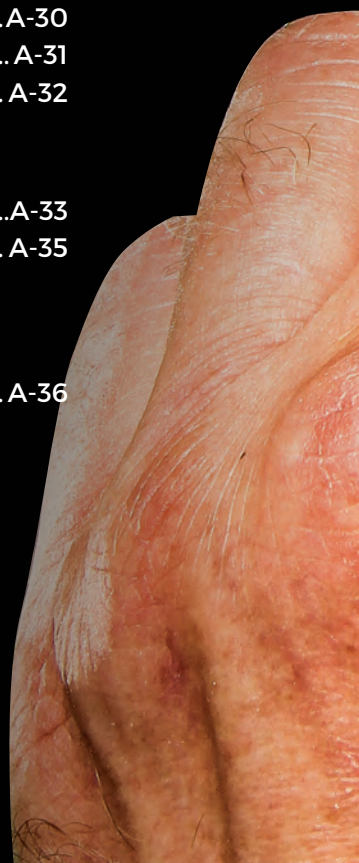
- Ring A-30
- Spade A-30
- Disconnects A-31
- Splices A-32

TERMINAL/BARRIER STRIPS

- Terminal Strips A-33
- Barrier Strips A-35

TAP CONNECTORS

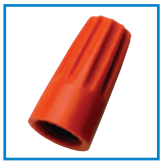
- B-TAP® Insulation-Piercing Connectors A-36



TWISTER® PROFLEX™
WIRE CONNECTOR
Page A-7
THE ELECTRICIAN'S
CHAMPION™
IDEAL®

TWIST-ON WIRE CONNECTORS... A DESIGN FOR EVERY APPLICATION.

Wire-Nut® Wire Connectors - The American Classic Since 1928
This American classic is the original connector that started it all. The Wire-Nut® Wire Connector has five color-coded models that cover a full range of applications from 22 to 6 AWG. The ribbed shell provides a positive grip and the fixed, square-wire spring provides a secure connection.



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

Twister® Wire Connectors - Comfortable, Swept Wing
The industry's choice for comfort. With three models, the Twister® Wire Connector easily handles the most common wiring configurations for residential construction projects from 22 to 6 AWG. A patented, expanding square-wire spring helps to ensure a quick, secure connection.

Twister® Pro Wire Connectors - Widest-Wire Range
The Twister Pro® and ProFLEX™ family combines the most comfortable wire connector from IDEAL Electrical with the widest wire range of any multi-colored connectors in the industry. These connectors are designed with a live-action spring and high-leverage wings that provide excellent grip and torque. The ProFLEX™ and ProFLEX™ Mini are also engineered with a flexible skirt for added protection, providing everyday performance professional electricians can trust.

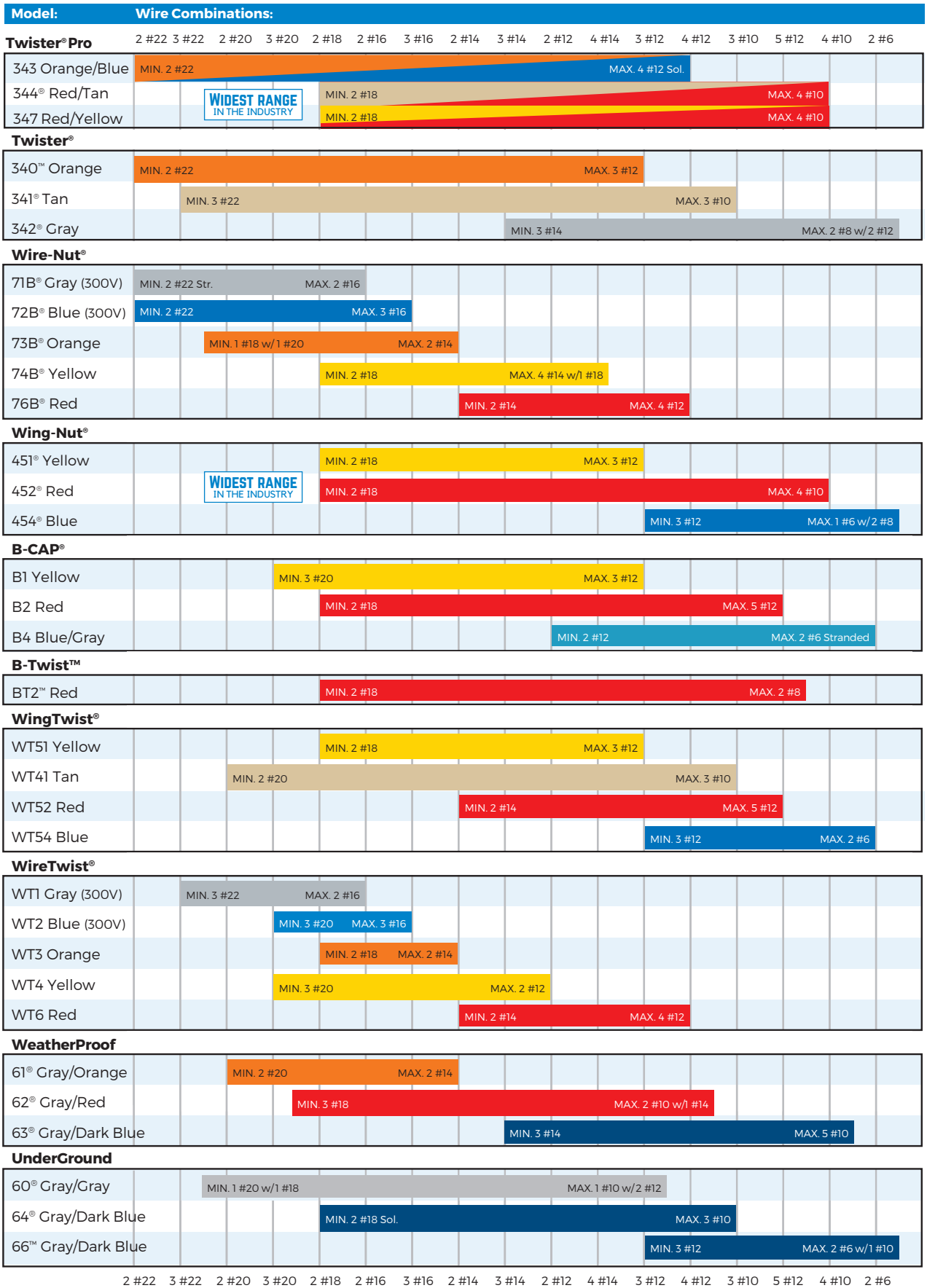
B-CAP® Wire Connectors - Low-Profile Fin
The B-CAP® Wire Connector gets you into those hard-to-reach spots comfortably, especially when you're retrofitting or updating. The contoured classic fin design provides a secure grip for extra torque, while the expanding interior spring accepts a wide range of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

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

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

Twister® Al/Cu Wire Connectors - Al/Cu Connections
The only twist-on connector for aluminum-to-copper connections. The specially formulated anti-oxidant compound prevents oxidation on aluminum conductors for improved conductivity and cooler connections. UL Listed and CSA Certified for aluminum-to-copper connections.

WIRE RANGE CHART



Wire-Nut® Wire Connectors

The American Classic Since 1928

- Fixed square spring for a secure hold
- Refined range to handle all common applications
- Positive grip shell that is perfect to twist-on with fingers
- Excellent for fine stranded wire applications
- UL Listed to 105˚C (221˚F)

UL LISTED Wire Connector 774A Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
71B®	Gray	300V 22 to 16 AWG Min. 2 #22 Str. – 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**
				Barrel of 25,000	**30-271**
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**
				Barrel of 10,000	**30-272**
				Barrel of 85,000	**30-872**
73B®	Orange	600V* 22 to 14 AWG Min. 1 #18 w/1 #20 Max. 2 #14	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**
				Bag of 500	**30-273**
				Barrel of 10,000	**30-673**
				Barrel of 50,000	**30-873**
74B®	Yellow	600V* 18 to 12 AWG Min. 2 #18 Max. 4 #14 w/1 #18	600V* ,75mm² to 4,0mm² Min. 2-,75mm² Max. 4-2,5mm² w/1-,75mm²	Box of 100	**30-074**
				Jar of 175	**30-074J**
				Bag of 500	**30-274**
				Carton of 1,000	**30-174**
				Barrel of 5,000	**30-674**
				Barrel of 35,000	**30-874**
76B®	Red	600V* 18 to 6 AWG Min. 2 #14 Max. 4 #12	600V* ,75mm² to 16,0mm² Min. 2-2,5mm² Max. 2-4,0mm²	Box of 100	**30-076**
				Jar of 150	**30-076J**
				Bag of 250	**30-276**
				Carton of 1,000	**30-176**
				Barrel of 15,000	**30-876**

Models 71B®, 72B® and 73B® **PLENUM RATED** Suitable for Air-Handling Space

*1,000V maximum in fixtures and signs

High-Temp Wire-Nut® Wire Connectors

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

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

UL LISTED Wire Connector 774A Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part 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	Box of 100	**30-3627**
				Carton of 1,000	**30-151**
				Barrel of 25,000	**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	Box of 100	**30-3628**
				Carton of 1,000	**30-152**
				Barrel of 10,000	**30-252**
73B®	Black	600V* 22 to 14 AWG Min. 1 #18 w/1 #20 - Max. 2 #14	600V* ,34mm² to 2,5mm² Min. 1-,75mm² – Max. 4-1,5mm² w/1-,50mm²	Box of 100	**30-3629**
				Carton of 1,000	**30-153**
				Barrel of 10,000	**30-253**
				Barrel of 50,000	**30-803**
59B™	Black	600V* 22 to 12 AWG Min. 2 #20 – Max. 3 #14	600V* ,34mm² to 4,0mm² Min. 2-,5mm² – Max. 3-2,5mm²	Box of 100	**30-059**
				Carton of 1,000	**30-159**
				Barrel of 5,000	**30-259**

Models 71B®, 72B® and 73B® **PLENUM RATED** Suitable for Air-Handling Space

*1,000V maximum in fixtures and signs

Wing-Nut® Wire Connectors

High-Leverage Wing

- Contoured wing profile provides extra leverage for superior torque
- Expanding, live-action spring expands to accommodate a wide range of wire sizes and combinations
- Copolymer shell expands for smooth, progressive tightening providing dependable connections
- Removable for repeat usage on same size or larger combinations
- Tough, UL94V-2 flame retardant shell rated at 105˚C (221˚F)

Wire Connector 774A LISTED Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
451®	Yellow	600V* 18 to 10 AWG Min. 2 #18 – Max. 3 #12	600V* ,75mm² to 6,0mm² Min. 2-,75mm² – Max. 3-4,0mm²	Box of 100	**30-451**
				Jar of 225	**30-451J**
				Carton of 1,000	**30-551**
				Jar of 500	**30-651J**
				Bag of 500	**30-651**
				Barrel of 35,000	**30-851**
452®	Red	600V* 18 to 8 AWG **Min. 2 #18 – Max. 4 #10** **(Widest range in the Industry!)**	600V* ,75mm² to 10,0mm² Min. 2-,75mm² – Max. 4-6,0mm²	Box of 100	**30-452**
				Jar of 300	**30-452J**
				Carton of 1,000	**30-552**
				Jar of 500	**30-652J**
				Bag of 500	**30-652**
				Barrel of 25,000	**30-852**
454®	Blue	600V* 14 to 6 AWG Min. 3 #12 – Max. 1 #6 w/2 #8	600V* 2,5mm² to 16,0mm² Min. 3-4,0mm² – Max. 2-16,0mm² w/1-4,0mm²	Box of 25	**30-454**
				Carton of 250	**30-554**
				Bag of 100	**30-654**

*1,000V maximum in fixtures and signs

Greenie® Grounding Wire Connectors

- Designed for making ground connections and bonding non-metallic sheathed cable
- Contoured wings for superior leverage
- Live-action, square-wire spring provides quality grounding connections
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)
- UL 486C & UL 467 Listed

Ground Connector 951L LISTED Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
92®	Green	14 to 10 AWG Min. 2 #14 – Max. 4 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² Max. 2-4,0mm² w/1-2,5mm²	Box of 100	**30-092**
				Jar of 150	**30-092J**
				Bag of 500	**30-292**
				Carton of 1,000	**30-192**
				Barrel of 25,000	**30-992**

Greenie® Grounding Connector fully meets the intent of the NEC 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

See Page A-17 for more IDEAL Grounding Products.

Twister® Wire Connectors - Preferred Choice for Residential Jobs

Comfortable Swept Wing

- Swept wings for more comfort, extra leverage, and less effort on large combinations
- Expanding, live-action spring supports a wide range of common wiring configurations
- Polypropylene shell expands for smooth, progressive tightening providing dependable connections
- Hexagonal shape accommodates standard nut driver for easy installation
- Quick take-up on even the toughest combinations, including solid-to-stranded
- UL Listed to 105˚C (221˚F)

Wire Connector 774A LISTED Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
341®	Tan	600V* 22 to 8 AWG Min. 3 #22 – Max. 3 #10	600V* ,34mm₂ to 10,0mm² Min. 3-,34mm² – Max. 3-6,0mm²	Box of 100	**30-341**
				Jar of 750	**30-341J**
				Carton of 1,000	**30-541**
				Bag of 500	**30-641**
				Jar of 500	**30-641J**
				Barrel of 25,000	**30-841**
342®	Gray	600V* 18 to 6 AWG Min. 3 #14 – Max. 2 #8 w/2 #12	600V* ,75mm² to 10,0mm² Min. 3-2,5mm² – Max. 2-10,0mm² w/2-4,0mm²	Box of 50	**30-342**
				Bag of 250	**30-642**
				Barrel of 15,000	**30-842**

*1,000V maximum in fixtures and signs

Twister® Pro Wire Connectors

Widest Wire Range

INDUSTRY LEADER

- Widest Wire Range of any multi-colored wire connectors in the industry
- Models 343 & 347 flexible skirt provides improved protection and adapts to tightly fit electrical boxes with limited space
- Swept wing design with SureGrip™ overmold offers greater comfort, leverage, and torque for faster connections
- Expanding square-wire spring and polypropylene shell deliver a secure connection every time
- Tough, UL 94V-2 flame-retardant shell

Wire Connector 774A LISTED Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
343	Orange/Blue	600V* 22 to 12 AWG Min. 2 #22 – Max. 4 #12 Sol. **WIDEST RANGE in the Industry of any other Orange/Blue connector.**	600V* ,34mm² to 4,0mm² Min. 2 - ,34mm² Max. 4 - 4,0mm²	Box of 100	**30-343**
				Jar of 500	**30-643J**
				Barrel of 35,000	**30-843**
344®	Red/Tan	600V* 22 to 8 AWG Min. 2 #18 – Max. 4 #10 **WIDEST RANGE in the Industry!**	600V* ,34mm² to 10,0mm² Min. 2 - ,75mm² Max. 4,0 - 6,0mm²	Box of 50	**30-144**
				Jar of 250	**30-244J**
				Jar of 500	**30-644J**
				Barrel of 20,000	**30-944**
347	Red/Yellow	1000V 22 to 8 AWG Min. 2 #18 - Max. 4 #10 **WIDEST RANGE in the industry!**	1000V ,34mm² to 10,0mm² Min. 2 ,75mm² Max. 4,0 - 6,0mm²	Box of 50	**30-1047**
				Bag of 250	**30-347**
				Jar of 400	**30-1347JR**
				Barrel of 15,000	**30-747**

*1,000V maximum in fixtures and signs

WeatherProof Wire Connectors
Above Grade (Ground) Use

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

LISTED Sealed Twist-On Wire Connector 5N35 · Cu/Cu Only

UnderGround Wire Connectors
Below Grade (Ground) Use

- 100% Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486G Sealed Twist-On Wire Connector for use in damp/wet locations or direct burial/below-grade applications
- Easy to apply, pre-filled twist-on wire connectors
- Expanding, live-action square-wire spring for fast, secure and long-lasting connections
- Deep skirt provides superior moisture resistance to protect connections
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)
- Tested to meet UL 486D section 9.5, Direct Burial sequence.

LISTED Sealed Twist-On Wire Connector 5N35 · Cu/Cu Only

WeatherProof Wire Connectors					
Model	**Color**	**Wire Combination Range**	**Wire Combination Range (mm)**	**Quantity**	**Part No.**
61®	Gray/Orange	600V* 22 to 14 AWG Min. 2 #20 - Max. 2 #14	600V* ,34mm² to 4,0mm² Min. 2-,5mm² – Max. 2-2,5mm²	Card of 25	**30-1161**
				Jar of 150	**30-1261J**
				Carton of 1,000	**30-1361**
62®	Gray/Red	600V* 18 to 8 AWG Min. 3 #18 - Max. 2 #10 w/1 #14	600V* ,75mm² to 10,0mm² Min. 2-1,5mm² Sol. - Max. 2-6,0mm²	Card of 20	**30-1162**
				Jar of 100	**30-1262J**
				Carton of 1,000	**30-1362**
63®	Gray/Dk. Blue	600V* 16 to 6 AWG Min. 3 #14 – Max. 5 #10	600V* 1,5mm² to 16,0mm² Min. 3-2,5mm² Sol. – Max. 5-6,0mm²	Card of 15	**30-1163**
				Jar of 50	**30-1263J**
				Carton of 1,000	**30-1363**
UnderGround Wire Connectors					
Model	**Color**	**Wire Combination Range**	**Wire Combination Range (mm)**	**Quantity**	**Part No.**
60®	Gray/Gray	600V* 20 to 10 AWG Min. 1 #20 w/1 #18 Max. 1 #10 w/2 #12	600V* ,5mm² to 6,0mm² Min. 1-,5mm² w/1,75mm² Max. 1-6,0mm² w/2-4,0mm²	Card of 25	**30-1160**
				Box of 100	**30-1260**
64®	Gray/Dk. Blue	600V* 18 to 8 AWG Min. 2 #18 Sol. – Max. 3 #10	600V* ,75mm² to 10,0mm² Min. 2-,75mm² Sol. - Max. 3-6,0mm²	Box of 50	**30-1264**
66™	Gray/Dk. Blue	600V* 14 to 6 AWG Min. 3 #12 – Max. 2 #6 w/1 #10	600V* 2,5mm² to 16,0mm² Min. 3-4,0mm² Sol. – Max. 2-16,0mm² w/1-6,0mm²	Box of 50	**30-1066**

*1,000V maximum in fixtures and signs

WeatherProof & UnderGround Wire Connector Combo Packs

Combination Packages			
Model	**Color**	**Quantity**	**Part No.**
61®/62®	Gray/Orange · Gray/Red WeatherProof Wire Connectors	Card of 10 (5 ea.)	**30-6162**
60®/64®	Gray/Gray · Gray/Dk. Blue UnderGround Wire Connectors	Card of 10 (5 ea.)	**30-6064**

*1,000V maximum in fixtures and signs

WARNING: One time use only. Do not reuse connector.

Twister® Al/Cu Wire Connectors

Al/Cu Connections

- Only aluminum-to-copper twist-on connector specifically designed to provide a secure connection while preventing aluminum corrosion
- Pre-filled antioxidant compound prevents oxidation of aluminum conductors
- Patent swept wings and hexagonal head for easy installation by hand or with standard nut driver
- Live-action, square-wire spring expands and contracts with aluminum wire
- Entry-cap retains corrosion-resistant compound
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)
- Complies with N.E.C. Section #110-14(b) for aluminum-to-copper connections; UL Listed to 486C and CSA Certified to C22.2 #188

UL LISTED Wire Connector 774A

Wire Connector also listed as grounding equipment

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

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

AL-CU (intermixed – dry locations). For use with Aluminum-to-Copper, Copper Clad Aluminum (CCA)-to-Copper, or CCA-to-CCA wire combinations. One-time use only, do not reuse connector.

For a complete listing of UL approved wire combinations, visit us at idealind.com

B-CAP® Wire Connectors

Low-Profile Fin

- Low profile design gets into tight spaces and hard-to-reach spots comfortably
- Slim, classic fins offer a secure grip for extra leverage and easy installation
- Live-action spring expands to accept wire shape and size with no pre-twisting
- Unique, space-saving profile is perfect for “old work” or shallow boxes
- 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
- Model BGR is UL 486C & UL 467 Listed

Wire Connector 774A LISTED · Cu/Cu Only · LR9706

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
B1	Yellow	600V* 22 to 10 AWG Min. 3 #20 – Max. 3 #12	600V* ,34mm² to 6,0mm² Min. 3-,5mm² – Max. 3-4,0mm²	Box of 100	**B1-1**
				Jar of 250	**B1-250JR**
				Jar of 500	**B1-500JR**
				Bag of 500	**B1-B**
				Barrel of 25,000	**B1-SK**
B2	Red	600V* 22 to 8 AWG Min. 2 #18 – Max. 5 #12	600V* ,34mm² to 10,0mm² Min. 2-,75mm² – Max. 5-4,0mm²	Box of 100	**B2-1**
				Jar of 350	**B2-350JR**
				Jar of 500	**B2-500JR**
				Bag of 500	**B2-B**
				Barrel of 25,000	**B2-SK**
B4	Blue-Gray	600V* 14 to 6 AWG Min. 2 #12 – Max. 2 #6 Stranded	600V* 2,5mm² to 16,0mm² Min. 2-4,0mm² – Max. 2-16,0mm²	Box of 25	**B4-1**
				Carton of 250	**B4-B**
BGR	Green	14 to 10 AWG Min. 2 #14 – Max. 5 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² - Max. 5-4,0mm²	Box of 50	**BGR-1**
				Carton of 250	**BGR-B**

*1,000V maximum in fixtures and signs

B-TWIST™ Wire Connectors

Long, Swept Wing, Fast-Start Spring

WIDER RANGE THAN COMPETITOR'S TAN/RED

- All-in-one connector with wide red/yellow range from 2 #18 to 2 #8
- Rounded dial-top with vertical ribs provides fast fingertip starts
- Connection comes to torque quickly to get the job done efficiently
- Long swept-wings improve comfort and torque
- Wide, expanding spring makes for easy starts on even the largest combinations
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)

Wire Connector 774A LISTED · Cu/Cu Only · LR9706

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
BT2™	Red	600V* 18 to 8 AWG Min. 2 #18 – Max. 2 #8	600V* ,75mm² to 10mm² Min. 2-,75mm² – Max. 1-8,0mm² w/2-6,0mm²	Box of 100	**BT2-1**
				Jar of 500	**BT2-500JR**
				Barrel of 25,000	**BT2-SK**

*1,000V maximum in fixtures and signs

For a complete listing of UL approved wire combinations, visit us at idealind.com

WireTwist® Wire Connectors

Fixed Spring

CONSTRUCTION PRODUCTS BUCHANAN

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

UL LISTED Wire Connector 774A Cu/Cu Only CSA LR9706

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
WT1	Gray	300V 22 to 14 AWG Min. 3 #22 – Max. 2 #16	300V ,34mm² to 2,5mm² Min. 3-,34mm² – Max. 2-1,5mm²	Box of 100	**WT1-1**
				Bag of 500	**WT1-B**
WT2	Blue	300V 22 to 14 AWG Min. 3 #20 – Max. 3 #16	300V ,34mm² to 2,5mm² Min. 3-,50mm² – Max. 3-1,5mm²	Box of 100	**WT2-1**
				Bag of 500	**WT2-B**
				Barrel of 50,000	**WT2-SK**
WT3	Orange	600V* 22 to 14 AWG Min. 2 #18 – Max. 2 #14	600V* ,34mm² to 2,5mm² Min. 2-,75mm² – Max. 2-2,5mm²	Box of 100	**WT3-1**
				Bag of 500	**WT3-B**
				Barrel of 50,000	**WT3-SK**
WT4	Yellow	600V* 22 to 10 AWG Min. 3 #20 – Max. 2 #12	600V* ,75mm² to 6,0mm² Min. 2-,75mm² – Max. 2-4,0mm²	Box of 100	**WT4-1**
				Bag of 500	**WT4-B**
WT6	Red	600V* 20 to 8 AWG Min. 2 #14 – Max. 4 #12	600V* ,50mm² to 10,0mm² Min. 2-2,5mm² – Max. 4-4,0mm²	Box of 100	**WT6-1**
				Bag of 250	**WT6-B**

*1,000V maximum in fixtures and signs

WingTwist® Wire Connectors

Contoured Spring

- Contoured wing design provides enhanced torque
- Expanding, square-wire spring creates secure connections
- Wide, deep skirt opening accommodates a variety of wire combinations
- Tough, UL 94V-2 flame retardant shell (105˚C/221˚F)
- Model WGR is UL 486C & UL 467 Listed.

UL LISTED Wire Connector 774A Cu/Cu Only CSA LR9706

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
WT51	Yellow	600V* 18 to 10 AWG Min. 2 #18 – Max. 3 #12	600V* ,75mm² to 6,0mm² Min. 2-,75mm² – Max. 3-4,0mm²	Box of 100	**WT51-1**
				Bag of 500	**WT51-B**
				Jar of 500	**WT51-500JR**
				Barrel of 25,000	**WT51-SK**
WT41	Tan	600V* 22 to 10 AWG Min. 2 #20 – Max. 3 #10	600V* ,34mm² to 6,0mm² Min. 2-0,5mm² – Max. 3-6,0mm²	Box of 100	**WT41-1**
				Bag of 500	**WT41-B**
				Jar of 500	**WT41-500JR**
				Barrel of 25,000	**WT41-SK**
WT52	Red	600V* 18 to 10 AWG Min. 2 #14 – Max. 5 #12	600V* ,75mm² to 6,0mm² Min. 2-2,5mm² – Max. 5-4,0mm²	Box of 100	**WT52-1**
				Bag of 500	**WT52-B**
				Jar of 500	**WT52-500JR**
				Barrel of 25,000	**WT52-SK**
WT54	Blue	600V* 14 to 6 AWG Min. 3 #12 – Max. 2 #6	600V* 2,5mm² to 16,0mm² Min. 3-4,0mm² – Max. 2-16,0mm²	Box of 50	**WT54-1**
				Bag of 100	**WT54-B**
WGR	Green	14 to 10 AWG Min. 2 #14 – Max. 5 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² – Max. 5-4,0mm²	Box of 50	**WGR-1**
				Carton of 250	**WGR-B**

*1,000V maximum in fixtures and signs

For a complete listing of UL approved wire combinations, visit us at idealind.com

SEE WWW.IDEALIND.COM FOR WARRANTY INFORMATION.

Combination WingTwist®/WireTwist® Wire Connectors

- Kit Contains:
  - WT1 WireTwist® Wire Connector, Gray, (Qty. 100)
  - WT2 WireTwist® Wire Connector, Blue, (Qty. 100)
  - WT3 WireTwist® Wire Connector, Orange, (Qty. 100)
  - WT4 WireTwist® Wire Connector, Yellow, (Qty. 100)
  - WT6 WireTwist® Wire Connector, Red, (Qty. 25)
  - WT41 WingTwist® Wire Connector, Tan, (Qty. 60)
  - WT51 WingTwist® Wire Connector, Yellow, (Qty. 100)
  - WT52 WingTwist® Wire Connector, Red, (Qty. 25)
  - WT54 WingTwist® Wire Connector, Blue, (Qty. 10)
  - Reusable case

Description	Quantity	Part No.
WireTwist®/WingTwist® Wire Connector Combination Kit	620 pcs.	**30-2091**

Spin-Twist® Wire Connector Socket

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

Description	Part No.
For Connector Models: Wire-Nut® (Models 74B® & 76B® only), Wing-Nut®, Twister®, Twister® Pro, Twister® ProFLEX™, Twister® ProFLEX™ Mini, B-CAP®, WireTwist® (WT4 & WT6 models) & WingTwist® Wire Connectors	**30-902**

IDEAL Wire connectors are available in:

Barrels
For really big jobs when you can't afford to run out of connectors.

Store N' Pour™ Jars
Easy-pour design keeps connectors clean and your shelf organized.

360˚ Zipper Bags
These bags are convenient, re-closeable and stand-up on the job.

Boxes
For small jobs at hand, just grab a box.

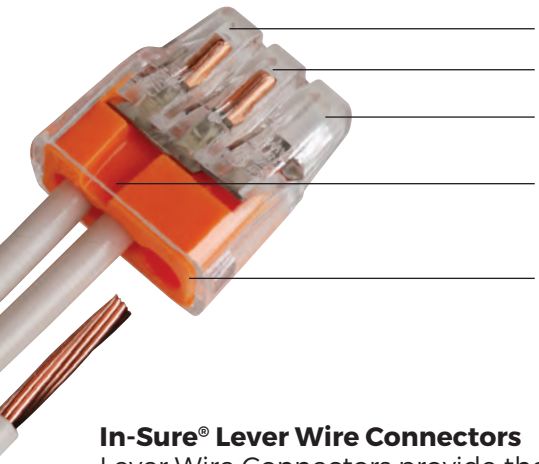
PUSH-IN WIRE CONNECTORS

In-Sure® Push-In Wire Connectors

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

GREAT FOR RESIDENTIAL APPLICATIONS

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



Stainless steel inserts restrict pull out

Visual verification of connection

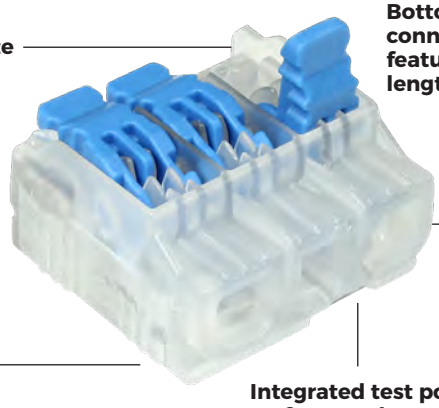
Tin-plated copper bus system

Check port for continuity testing

Color-coded for easy identification

In-Sure® Lever Wire Connectors

Lever Wire Connectors provide the perfect solution for joining solid and stranded wires. These versatile connectors have a compact design and take up minimal room in junction boxes and enclosures.



Lever closes opposite of wire entry

Bottom of connector features strip length guide

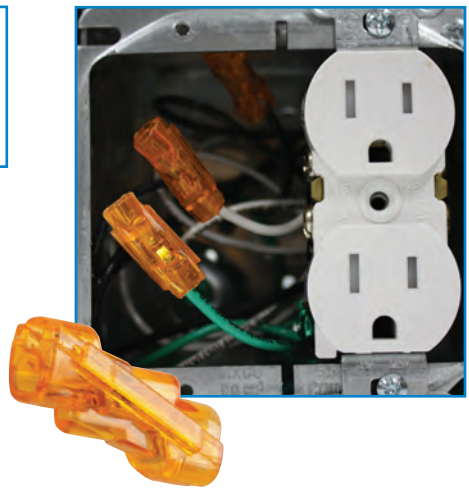
Clear housing allows verification of connection

Integrated test ports on front and rear of connector

SpliceLine® In-Line Wire Connectors

75% FASTER THAN BUTT SPLICES NO MORE CRIMPING

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

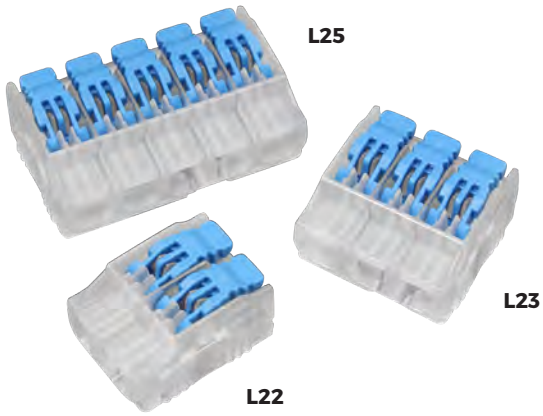


The end-to-end connection of SpliceLine® is a great solution for today's pre-fab operations and also makes it perfect for lengthening short wires in tight spaces. It easily passes through ½ in. knockouts and the transparent polycarbonate allows for visual inspection, providing a secure connection every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

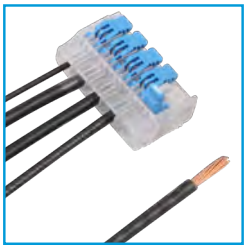
In-Sure® Push-In Lever Wire Connectors

Insert. Close. Connect.

- Releasable connector for solid & stranded wires
- Wire Range: 24 - 12 AWG
- Modern alternative to traditional connectors
- Safe, reliable and reusable
- Two-stage lock for a secure connection
- Clear housing allows for verification of connection
- Continuity check port and strip length guide
- Compact design for tight spaces
- For use with Cu/Cu combinations only
- Solid wires can be inserted without opening lever



Solid wires can be inserted without opening lever



Releasable for solid & stranded wires

Continuity check port and strip length guide

Compact design for tight spaces

Model	Number of Ports	Amp Rating	Wire Combination	Quantity	Part No.
L22	2 Port	20A	600V* Solid: 24 - 12 AWG Stranded: 24 - 12 AWG	Box of 150	**30-10L22**
				Jar of 500	**30-50L22J**
				Box of 4,000	**30-16L22**
L23	3 Port			Box of 100	**30-10L23**
				Jar of 350	**30-35L23J**
				Box of 2,500	**30-16L23**
L25	5 Port			Box of 75	**30-10L25**
				Jar of 200	**30-20L25J**
				Box of 1,500	**30-16L25**

*1,000V in signs and fixtures. Temperature rating 105˚C max. (221˚F). COPPER-TO-COPPER ONLY. Do not use on aluminum.

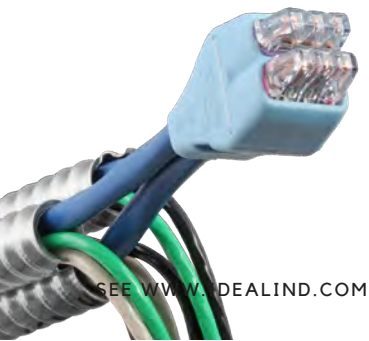
In-Sure® MC-PCS Wire Connectors

Cu/Cu Only

c UL us LISTED Wire Connector 7774A

Strip. Push. Close.

- Use to splice the control and signal pairs in MC-PCS cable
- Fits #18 - 12 AWG solid and stranded copper wires
- Outer sheath provides required separation between power and control conductors inside electrical box or enclosure per 2020 NEC article 725.136



Model	AMP Rating	Wire Combination	Qty.	Part No.
56	20 Amp	600V* Solid: 12-18 AWG Stranded: 12-16 AWG (≤ 19 str.) 18 AWG (7 strands)	Jar of 100	**30-1056J**

*1,000V in signs and fixtures.
COPPER-TO-COPPER ONLY. Do not use on aluminum.

In-Sure® Push-In Wire Connectors

Strip. Push. Connect.

- No-twist, push-in design reduces repetitive motion fatigue
- Low insertion force for fast and easy connections
- Compact size makes installation easy
- Clear shell gives visual verification of connection
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)
- Models 32, 33, 34 and 39 Listed for UL 467; Models 32, 33, 34 are CE listed
  Models 87, 88, 90 are CE Listed

UL Wire Connector 774A LISTED Cu/Cu Only CSA®

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

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.

SpliceLine® In-Line Wire Connectors

Patented Push-In Technology.

- Faster alternative to traditional butt splices
- Crimp-free, solderless push-in butt splice
- Slim design fits through 1/2 in. knockout
- Perfect for lengthening wire
- Transparent polycarbonate housing for visual inspection of connection
- Listed for UL 467

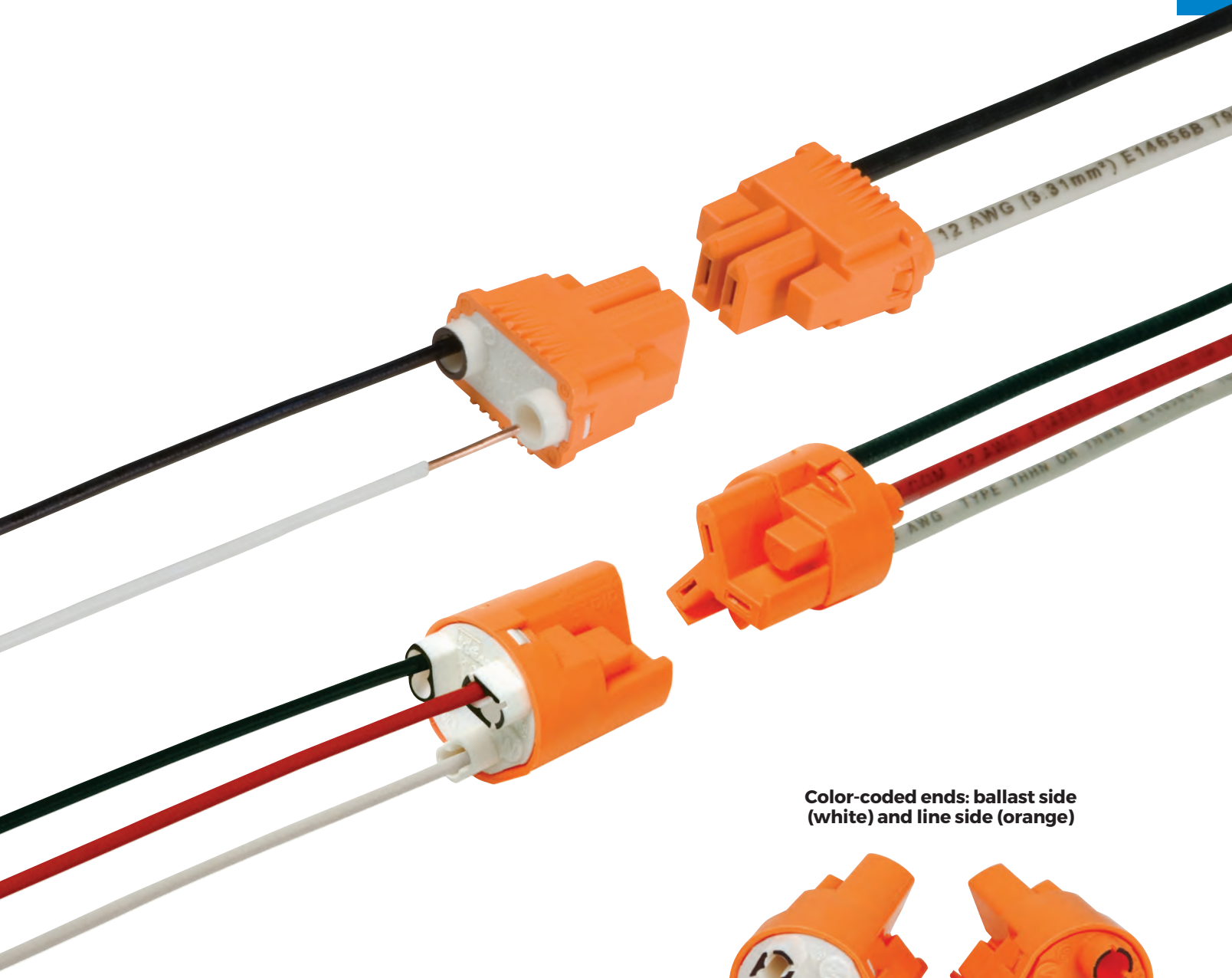
SpliceLine®

UL Wire Connector 774A LISTED Cu/Cu Only CSA® CE

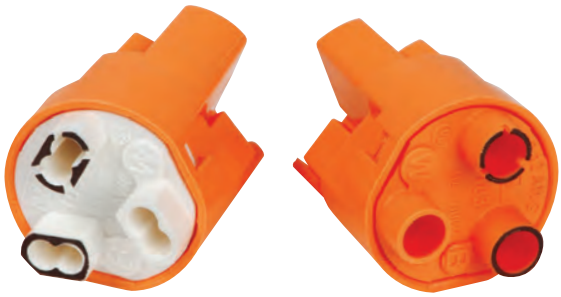
Model	Color	Rating	Wire Range	Quantity	Part No.
42	Orange	600V/20A 105˚C	Solid: 20-12 AWG Stranded: 16-12 AWG (≤19 str.) Stranded Tin-Bonded: 18-14 AWG (≤19 str.)	Bag of 10	**30-1342S**
				Box of 100	**30-1042**
				Jar of 300	**30-1042J**
				Box of 2,500	**30-1642**

POWERPLUG® LUMINAIRE DISCONNECTS

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



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



PowerPlug® Luminaire Disconnects

Push-In Technology for Quick Connections

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

Model 103

Model 183

Model 102®

Model 182®

LISTED
Luminaire Disconnect
3HME

Selection Chart

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

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

1,000V maximum fixtures and signs.

Basic Lighting Maintenance Kit

- Kit Contains:
  - Wire-Nut® Wire Connectors (25 Model 72B® Blue, 25 Model 73B® Orange)
  - In-Sure® Push-In Wire Connectors (25 Model 33 Orange)
  - SpliceLine® In-Line Wire Connectors (25 Model 42 Orange)
  - PowerPlug® Luminaire Disconnects (30 Model 102® 2-Port, 15 Model 103 3-Port, 50 Model 182® 2-Port)

Description	Part No.
Basic Lighting Maintenance Kit	**30-2255**

Lighting Installation Kit

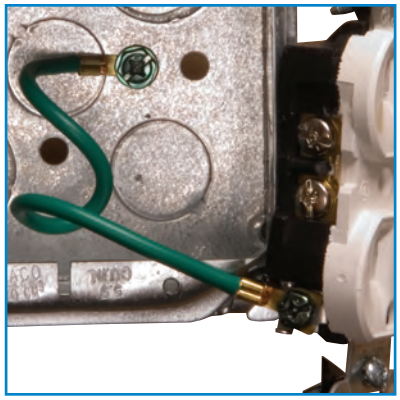
- Kit Contains:
  - Wire-Nut® Wire Connectors (100 Model 72B® Blue)
  - In-Sure® Push-In Wire Connectors (50 Model 33 Orange)
  - PowerPlug® Luminaire Disconnects (30 Model 102® 2-Port, 50 Model 182® 2-Port)
  - 1 Twist-a-Nut™ Screwdriver/Nut Driver (35-908)
  - 1 Reflex™ Super T®-Stripper Wire Stripper (45-615)

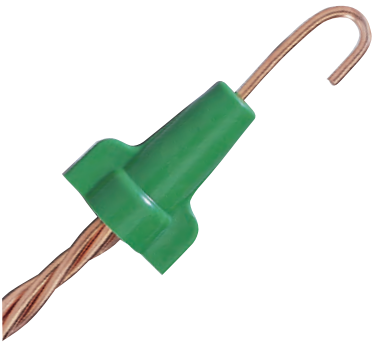
Description	Part No.
Lighting Installation Kit	**30-2257**

GROUNDING PRODUCTS

We've got grounding covered!
Grounding pigtails are designed for a wide variety of grounding applications. The ultra-flexible lead wire and bonding jumpers make fast and efficient pigtailing.

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



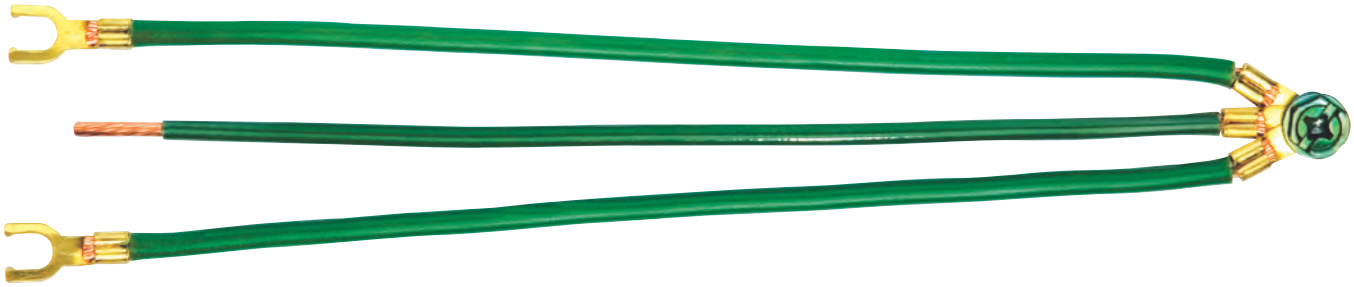


Greenie® Grounding Wire Connector
- Designed for making ground connections and bonding non-metallic sheathed cable

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

Solid

Combination



Screws
- 10-32 x 3/8 in. zinc-plated thread-forming, hole-finding ground screw with combination Slotted, Phillips, Hex and #2 Robertson head. Sold individually or factory-assembled on to pigtails.

THREAD FORMING

Solid Wire Grounding Tails

30-3390

Description	Quantity	Part No.
14 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Bulk pack of 1000	**30-3390**
12 AWG solid, 6.5 in. tail w/loop & ground screw and stripped end	Bag of 50	**30-3404**
	Bulk pack of 1,000	**30-3402**
12 AWG solid, 8 in. tail w/loop & ground screw and stripped end	Bag of 50	**30-3392**
	Plastic box of 100	**30-3399**
	Bulk pack of 1,000	**30-3496**
12 AWG solid, 10 in. tail w/loop & ground screw and stripped end	Bag of 50	**30-3410**
	Bulk pack of 500	**30-3394**
12 AWG solid, 12 in. tail w/loop & ground screw and stripped end	Bulk pack of 1,000	**30-3396**

Bulk packs are bundled in quantities of 50.

UL LISTED

Stranded Wire Grounding Tails

30-3183

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

Bulk packs are bundled in quantities of 50.

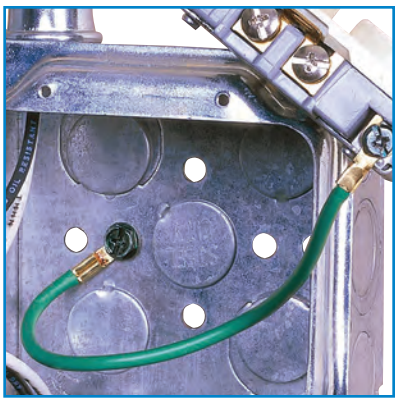
UL LISTED

Combo Grounding Tails

30-3289

Description	Quantity	Part No.
2-wire combo: 12 AWG solid 8 in. tail, one stripped end, one end w/ground screw; joined to 12 AWG stranded 8 in. tail at a ring terminal, w/fork terminal on second end	Box of 500	**30-3286**
2-wire combo: 12 AWG stranded 8 in. tail w/#10 ring & ground screw, one stripped-end tail and one #10 fork tail	Bag of 25	**30-3287**
2-wire combo: 12 AWG stranded 8 in. tail w/#10 ring and ground screw and two #10 fork tails	Bag of 25	**30-3288**
3-wire combo: 12 AWG stranded, 8 in. tail w/#10 ring & ground screw, one stripped-end tail and two #10 fork tails	Bag of 25	**30-3289**

UL LISTED



Grounding Screws

- 10-32 x 3/8 in. Zinc-plated grounding screws offer a thread-forming, hole-finding feature plus combination hex, Phillips, slotted and Robertson head
- Ensures compliance with Article 250 of NEC.

THREAD FORMING

Description	Quantity	Part No.
Thread-forming, hole-finding screw. Combination hex, Phillips, slotted and Robertson head.	Jar of 100	**30-3594**
	Bag of 50	**30-3194**

Non-Grounding Stranded Wire Pigtails

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

Description	Quantity	Part No.
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, white	Bag of 25	**30-3470**
	Bulk pack of 1,000	**30-3570**
12 AWG stranded, 8 in. tail w/#10 fork and stripped end, black	Bag of 25	**30-3471**
	Bulk pack of 1,000	**30-3571**

Bulk packs are bundled in quantities of 50.

Greenie® Grounding Wire Connectors

- Designed for making ground connections and bonding non-metallic sheathed cable
- Contoured wings for superior leverage
- Live-action, square-wire spring provides quality grounding connections
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)

UL Ground Connector 951L LISTED

Cu/Cu Only

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
92®	Green	14 to 10 AWG Min. 2 #14 – Max. 4 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² Max. 2-4,0mm² w/1-2,5mm²	Box of 100	**30-092**
				Jar of 150	**30-092J**
				Bag of 500	**30-292**

WingTwist® Wire Connectors

Contoured Spring

- Contoured wing design provides enhanced torque
- Expanding, square-wire spring creates secure connections
- Wide, deep skirt opening accommodates a variety of wire combinations
- Tough, UL 94V-2 flame retardant shell (105˚C/221˚F)
- UL 486A listed.

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Qty.	Part No.
WGR	Green	14 to 10 AWG Min. 2 #14 – Max. 5 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² – Max. 5-4,0mm²	Box of 50	**WGR-1**
				Carton of 250	**WGR-B**

B-CAP® Wire Connectors

Low-Profile Fin

- Low profile design gets into tight spaces and hard-to-reach spots comfortably
- Slim, classic fins offer a secure grip for extra leverage and easy installation
- Live-action spring expands to accept wire shape and size with no pre-twisting
- Unique, space-saving profile is perfect for "old work" or shallow boxes
- Tough, UL 94V-2 flame-retardant shell rated at 105˚C (221˚F)
- Designed for making ground connections and bonding non-metallic sheathed cable

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
BGR	Green	14 to 10 AWG Min. 2 #14 – Max. 5 #12	2,5mm² to 6,0mm² Min. 2-2,5mm² - Max. 5-4,0mm²	Box of 50	**BGR-1**
				Carton of 250	**BGR-B**

Steel Crimp Connectors

LISTED Wire Connector — Cu/Cu Only

- Designed for making fast, permanent, pressure-type connections
- Long-zinc-plated steel sleeves maximize contact area with conductors
- UL Listed to 486C and CSA Certified to C22.2 #188; comply with Federal Specification W-S-610E
- Temperature rating: 105˚C (221˚F)

Model	Wire Combination Range	Quantity	Part No.
410	600V 18 – 10 AWG Min. 1 #14 & 1 #18 – Max. 2 #10 & 2 #14	Bag of 100	**30-410**
		Carton of 1,000	**30-510**
		Barrel of 10,000	**30-610**
411	600V 18 – 8 AWG Min. 3 #12 – Max. 4 #10	Box of 50	**30-411**
		Carton of 1,000	**30-511**
412	600V 18 – 4 AWG Min. 1 #14 & 1 #16 – Max. 2 #8 & 1 #6	Box of 50	**30-412**
		Carton of 1,000	**30-512**

IDEAL hand crimp tools UL listed for Models 410, 411, 412: 30-428, 30-429, 30-430.

Wrap-Cap® Insulators

- Provide high dielectric and physical protection for UL Listed, non-insulated pressure-type wire connectors
- Unique design completely covers splice — insulates both around and between wires and eliminates need for tape
- UL Listed to 486C and CSA Certified for 600V maximum building wiring (1,000V maximum for fixtures and signs); temperature rated at 75˚C (167˚F) maximum.

Model	Description	Quantity	Part No.
415	Insulator for Model 410 Connectors. Can also be used on Buchanan 2006S & 2011S Copper Crimps	Box of 50	**30-445**
		Carton of 1,000	**30-515**
417	Insulator for Model 411 & 412 Connectors. Can also be used on Buchanan 2011S Copper Crimps	Box of 25	**30-447**
		Carton of 1,000	**30-517**

LISTED Wire Connector

Copper Splice Cap Crimp Connectors

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

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

*1,000V maximum in fixtures and signs.

IDEAL hand crimp tools UL Listed for models 2006S and 2011S: C24, 30-428, 30-429 and 30-430.

LISTED Wire Connector — Cu/Cu Only

Splice Cap Insulators

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

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

LISTED Wire Connector — Cu/Cu Only

Four-Way Crimp Tool

- Design ensures even compression and reliable connections
- Spring-loaded, cam-actuated plungers
- Fingertip adjustment for two connector sizes

Description	Part No.
Four-Way Crimp Tool for use with Buchanan 2006S and 2011S Crimp Connectors	**C24**

Pre-Insulated Crimp Connectors

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

Model	Wire Combination Range	Quantity	Part No.
48	600V* Min. 2 #22 Max. 1 #14 w/2 #18	Carton of 1,000	**30-245**
		Barrel of 10,000	**30-645**
49	600V* Min. 1 #22 w/1 #18 Max. 1 #12 w/1 #16	Carton of 1,000	**30-249**
		Barrel of 10,000	**30-649**
NC-8	600V* Min. 4 #16 Max. 1 #12 w/4 #14	Carton of 1,000	**30-148**
		Barrel of 5,000	**30-648**
NC-2212**	600V* Min. 2 #22 Max. 5 #18	Carton of 1,000	**30-146**
		Barrel of 10,000	**30-646**

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

LISTED Wire Connector Cu/Cu Only

High-Temp Pre-Insulated Crimp Connectors

All of the same features as the Pre-Insulated Crimp Connectors, plus:

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

Model	Wire Combination Range	Quantity	Part No.
49HT	600V* Min. 1 #22 w/1 #18	Barrel of 10,000	**30-849**

*1000V maximum in fixtures and signs.

LISTED Wire Connector Cu/Cu Only

Set Screw Wire Connectors

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

Model	Wire Combination Range	Quantity*	Part No.
10	300V 22 to 10 AWG Min. 1 #20 w/1 #22 – Max. 2 #14 w/1 #16	Box of 100	**30-210**
		Carton of 1,000	**30-310**
11	600V 22 to 10 AWG Min. 1 #14 w/1 #20 – Max. 3 #14 w/2 #18	Box of 100	**30-211***
		Carton of 1,000	**30-311***
22	600V 20 to 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***

*Package includes (1) K-2422 Set Screw Holder.

LISTED Wire Connector Cu/Cu Only

Set Screw Holder

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

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

STREET LIGHT KITS

SLK® Disconnect Fuse Kits

- Breakaway fuseholder for use in:
  – Roadway & street lighting
  – Parking lot & area lighting
- Listed for submersible installations per UL486D, not intended for continuous submersion
- Bright orange color for ease of visibility
- Large selection of configurations
- Set screw or crimp terminations available

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

The SLK® is the first Disconnect Fuse Kit listed to UL's ECIS category for special purpose connectors. This category contains a set of rigorous tests from a host of UL standards, including UL 486D, the standard for submersibility. This means that the SLK® will stand up to the wet conditions often seen in and around pole bases, junction boxes, and hand holes, not included for continuous submersion.

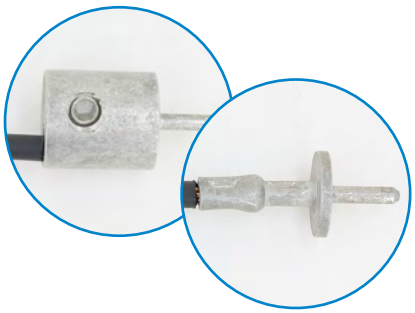
In addition, the bright orange color of the SLK® makes the product easy to locate in dark junction boxes, in hand holes, or in a nighttime knockdown situation when the connector is often buried amongst dirt, mud, and debris.

- Accepts 13/32 in. x 1-1/2 in. midget-style fuse (Note: Fuse not included)
- Wire Range: 2-14 AWG (Cu & Al rated)
- Ratings: 30A, 600V, 105˚C
- Maximum available short circuit current of 10,000

Neutral configurations come with white fuseholder and dummy fuse

Paired (hot/neutral) configurations are keyed to prevent reverse polarities

Crimp or set screw terminations



High visibility orange material (UL94V-2 flame rated)

Ribbed boots provide superior grip

Fuse stays on de-energized load side when separated

Large, clear markings

SLK® Ordering Information

To Determine which Kit to Use:

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

Examples:

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

CRIMP

Table 1: Crimp Base Part numbers

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

ONE KIT WILL COVER A LARGE WIRE RANGE

Note: Crimp connections on larger gauge wire (2 #8, 2 #6, 1 #8, 1 #6 or 1 #4) require IDEAL #88-843 Mechanical Indentor and Crimp Tool. Crimps connections for #14 - #10 AWG with 1/2 in. strip length.

Table 2: Crimp Variations (14-10 AWG with 1/2 in. strip length, use 30-425 and 30-429)

Base Part Number (Hot)	Variation (If applicable)			
	Neutral	Dual	Paired	Non-Breakaway
30-C1212	30-C1212N	30-C1212D	30-C1212P	
30-C1216	30-C1216N	30-C1216D	30-C1216P	
30-C1616	30-C1616N	30-C1616D	30-C1616P	
30-C1222	30-C1222N			
30-C1226	30-C1226N			
30-C1622	30-C1622N			
30-C1626	30-C1626N			
30-C2012	30-C2012N			30-C2012T

Base Part Number (Hot)	Variation (If applicable)			
	Neutral	Dual	Paired	Non-Breakaway
30-C2016	30-C2016N			30-C2016T
30-C2216	30-C2216N			30-C2216T
30-C2616	30-C2616N			30-C2616T
30-C2022	30-C2022N			
30-C2026	30-C2026N			
30-C2222	30-C2222N			
30-C2226	30-C2226N			
30-C2626	30-C2626N			

SET SCREW

Table 3: Set Screw Base Part numbers

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

ONE KIT WILL COVER A LARGE WIRE RANGE

Table 4: Set Screw Variations

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

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

In-Line Fused

Description	1 Line Side	1 Load Side	Part No.
In-Line Breakaway, set screw; fused (Hot)	2-14 AWG	2-14 AWG	**30-S1212**
In-Line Breakaway, crimp; fused (Hot)	2-4 AWG	2-4 AWG	**30-C1212**
	2-4 AWG	6-14 AWG	**30-C1216**
	6-14 AWG	6-14 AWG	**30-C1616**

In-Line Non-Fused

Description	1 Line Side	1 Load Side	Part No.
In-Line Breakaway, set screw; non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S1212N**
In-Line Breakaway, crimp; non-fused (Neutral)	2-4 AWG	2-4 AWG	**30-C1212N**
	2-4 AWG	6-14 AWG	**30-C1216N**
	6-14 AWG	6-14 AWG	**30-C1616N**

Y-Tap Fused

Description	2 Line Side	1 Load Side	Part No.
Y-Tap Breakaway, set screw; fused (Hot)	2-14 AWG	2-14 AWG	**30-S2212**
Y-Tap Breakaway, crimp; fused (Hot)	2-4 AWG	2-4 AWG	**30-C2012**
	2-4 AWG	6-14 AWG	**30-C2016**
	6-8 AWG	6-14 AWG	**30-C2216**
	10-14 AWG	6-14 AWG	**30-C2616**
Combination Y-Tap Breakaway, fused (Hot)	2-14 AWG set screw	6-14 AWG crimp	**30-B2216**

Y-Tap Non-Fused

Description	2 Line Side	1 Load Side	Part No.
Y-Tap Breakaway, set screw; non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S2212N**
Y-Tap Breakaway, crimp; non-fused (Neutral)	2-4 AWG	2-4 AWG	**30-C2012N**
	2-4 AWG	6-14 AWG	**30-C2016N**
	6-8 AWG	6-14 AWG	**30-C2216N**
	10-14 AWG	6-14 AWG	**30-C2616N**

Non-Breakaway Fused

Description	2 Line Side	1 Load Side	Part No.
Y-Tap Non-Breakaway, set screw; fused (Hot)	2-14 AWG	2-14 AWG	**30-S2212T**
Y-Tap Non-Breakaway, crimp; fused (Hot)	2-4 AWG	2-4 AWG	**30-C2012T**
	2-4 AWG	6-14 AWG	**30-C2016T**
	6-8 AWG	6-14 AWG	**30-C2216T**
	10-14 AWG	6-14 AWG	**30-C2616T**

Dual In-Line Fused

Description	1 Line Side	1 Load Side	Part No.
Dual In-Line Breakaway, set screw; fused (both Hot)	2-14 AWG	2-14 AWG	**30-S1212D**
Dual In-Line Breakaway, crimp; fused (both Hot)	2-4 AWG	2-4 AWG	**30-C1212D**
	2-4 AWG	6-14 AWG	**30-C1216D**
	6-14 AWG	6-14 AWG	**30-C1616D**

Single-Pole In-Line Paired

Description	1 Line Side	1 Load Side	Part No.
Paired In-Line Breakaway, set screw; one fused (Hot); one non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S1212P**
Paired In-Line Breakaway, crimp; one fused (Hot); one non-fused (Neutral)	2-4 AWG	2-4 AWG	**30-C1212P**
	6-14 AWG	6-14 AWG	**30-C1216P**
	6-14 AWG	6-14 AWG	**30-C1616P**

One Wire Line/2 Wires Load Fused

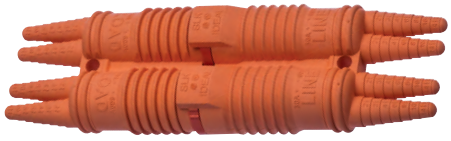
Description	1 Line Side	2 Load Side	Part No.
Y-Tap Breakaway, set screw; fused (Hot)	2-14 AWG	2-14 AWG	**30-S1222**
Y-Tap Breakaway, crimp; fused (Hot)	2-4 AWG	6-8 AWG	**30-C1222**
	2-4 AWG	10-14 AWG	**30-C1226**
	6-14 AWG	6-8 AWG	**30-C1622**
	6-14 AWG	10-14 AWG	**30-C1626**

SLK accepts solid or stranded and copper or aluminum conductors.

Two Wires Line/2 Wires Load Fused

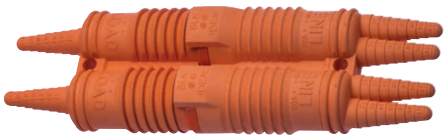
Description	2 Line Side	2 Load Side	Part No.
2-Pole Breakaway, set screw; fused (Hot)	2-14 AWG	2-14 AWG	**30-S2222**
2-Pole Breakaway, crimp; fused (Hot)	2-4 AWG	6-8 AWG	**30-C2022**
	2-4 AWG	10-14 AWG	**30-C2026**
	6-8 AWG	6-8 AWG	**30-C2222**
	6-8 AWG	10-14 AWG	**30-C2226**
	10-14 AWG	10-14 AWG	**30-C2626**

2-Pole Dual Fused



Description	2 Line Side	2 Load Side	Part No.
Dual 2-Pole Breakaway, set screw; fused (both Hot)	2-14 AWG	2-14 AWG	**30-S2222D**

Y-Tap Dual Fused



Description	2 Line Side	1 Load Side	Part No.
Dual, Y-Tap Breakaway, set screw; fused (both Hot)	2-14 AWG	2-14 AWG	**30-S2212D**

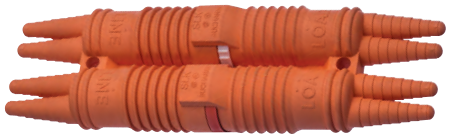
One Wire Line/2 Wires Load Non-Fused

Description	1 Line Side	2 Load Side	Part No.
Y-Tap Breakaway, set screw; non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S1222N**
Y-Tap Breakaway, crimp; non-fused (Neutral)	2-4 AWG	6-8 AWG	**30-C1222N**
	2-4 AWG	10-14 AWG	**30-C1226N**
	6-14 AWG	6-8 AWG	**30-C1622N**
	6-14 AWG	10-14 AWG	**30-C1626N**

Two Wires Line/2 Wires Load Non-Fused

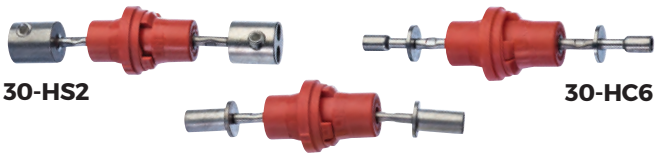
Description	2 Line Side	2 Load Side	Part No.
2-Pole Breakaway, set screw; non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S2222N**
2-Pole Breakaway, crimp; non-fused (Neutral)	2-4 AWG	6-8 AWG	**30-C2022N**
	2-4 AWG	10-14 AWG	**30-C2026N**
	6-8 AWG	6-8 AWG	**30-C2222N**
	6-8 AWG	10-14 AWG	**30-C2226N**
	10-14 AWG	10-14 AWG	**30-C2626N**

2-Pole Paired



Description	2 Line Side	2 Load Side	Part No.
Paired 2-Pole Breakaway, set screw; one fused (Hot); one non-fused (Neutral)	2-14 AWG	2-14 AWG	**30-S2222P**

Fuseholders (No Boot Included)



30-HS2 **30-HC6**

30-HC2

Description	1 Line Side	1 Load Side	Part No.
Fuseholder only, non-breakaway, set screw, fused	2-14 AWG	2-14 AWG	**30-HS2**
Fuseholder only, non-breakaway, crimp, fused	2-4 AWG	2-4 AWG	**30-HC2**
	6-14 AWG	6-14 AWG	**30-HC6**

SLK accepts solid or stranded and copper or aluminum conductors.

Breakaway Streetlight Connector & Splice Insulating Kits

CONSTRUCTION PRODUCTS BUCHANAN

- Safe and easy installation in five minutes or less
- No special equipment necessary – requires only a knife, wire stripper, and a hex tool or crimp tool
- Built-in break-away design eliminates de-energization of complete circuits
- Safely separates upon impact without breaking wires – eliminates potential danger and electrical shock
- Spring-loaded contacts compensate for thermal expansion to maintain integrity of connection (breakaway models)

Application Guide

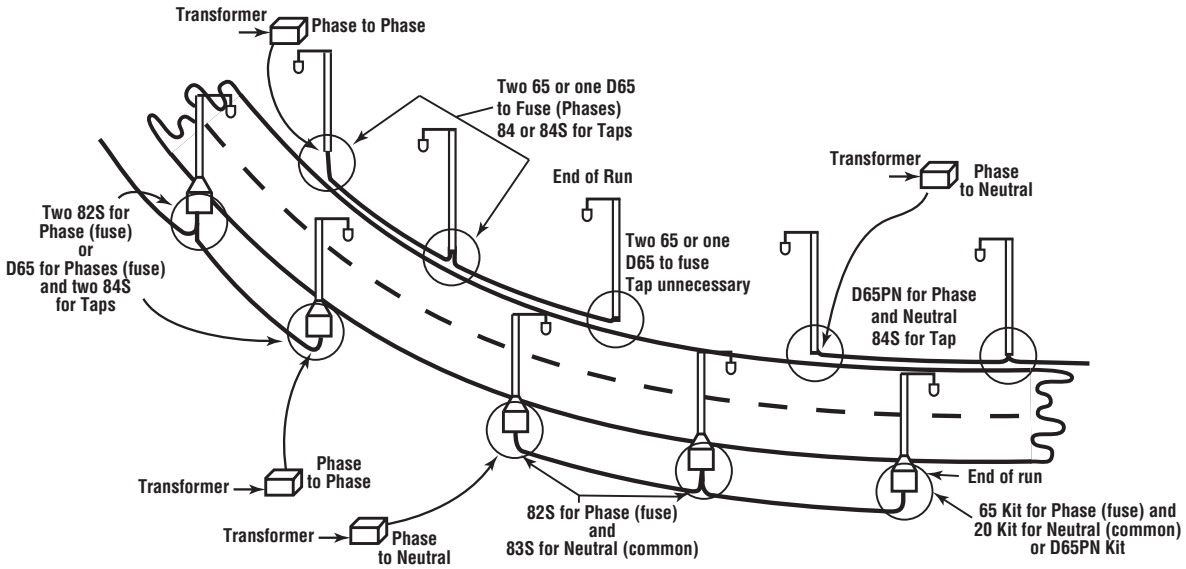
(Examples of Several Configurations)

For Poles with Transformer Bases, Standard Bases and Junction Boxes

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

For Lights Mounted to Utility Poles, etc.

Overhead Feed	
Configurations	**Comments**
Two B-Tap® Insulation Piercing Connectors for phase and/or tap (for insulated conductors only)	Recommended configuration, see B-Tap® Insulation Piercing Connectors on page A-36.



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

For Insulation O.D. range .120 in. - .430 in. use ADB1. For Insulation O.D. range .420 in. - .785 in. use EAFB1

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

Stated wire range for crimping stranded conductors. For crimping solid wire: 14-4 AWG, use codes. U, 2 AWG use code LC. Note: Fused Kits require a 13/32 in. x 1-1/2 in. fuse. DO NOT USE GLASS OR INDICATING TYPES. Waterproof or direct burial wire is recommended. THHN is NOT recommended. Insulation O.D. range is .120 in. - .430 in.

LR9706

In-Line Fused (Hot)

Line side Double Ridge | Load side Single Ridge

Fuse (not included)

Description	1 Line Side	1 Load Side	Part No.
In-Line Breakaway, crimp, fused	12-6 AWG Cu	12-6 AWG Cu	**65U**
	4-2 AWG Cu	12-6 AWG Cu	**65LC-U**
	4-2 AWG Cu	4-2 AWG Cu	**65-LC**

In-Line Non-Fused (Neutral)

Line side Double Ridge | Load side Single Ridge

Pin Contact

Description	1 Line Side	1 Load Side	Part No.
In-Line Breakaway, crimp, non-fused	12-6 AWG Cu	12-6 AWG Cu	**20U**
	4-2 AWG Cu	12-6 AWG Cu	**20-LC-U**
	4-2 AWG Cu	4-2 AWG Cu	**20-LC**

Dual In-Line Fused (Both Hot)

Line side Double Ridge | Load side Single Ridge

Fuse (not included)

Description	1 Line Side	1 Load Side	Part No.
Dual In-Line Breakaway, crimp, fused	12-6 AWG Cu	12-6 AWG Cu	**D65U**
	4-2 AWG Cu	12-6 AWG Cu	**D65-LC-U**
	4-2 AWG Cu	4-2 AWG Cu	**D65-LC**

Y-Splice Kits (Non-Breakaway/No Fuse)

Line side housing (receptacle) | Y Insert Assembly | Load side housing (plug)

Terminal Block

Description	2 Line Side Set Screw	1 Load Side Set Screw	Part No.
Y-Splice Set Screw Tap & Run	10-2 AWG Cu/Al	10-2 AWG Cu/Al	**84S-ADB1**
	10-2 AWG Cu/Al	10-2 AWG Cu/Al	**84S-EAFB1**

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

Line side Double Ridge | Load side Single Ridge

White Band (Neutral Side) | Pin Contact | White Band (Neutral Side)

Fuse (not included)

Description	1 Line Side	1 Load Side	Part No.
Paired In-Line Break-away, crimp, non-fused	12-6 AWG Cu	12-6 AWG Cu	**D65PN-U**
	4-2 AWG Cu	12-6 AWG Cu	**D65PN-LC-U**
	4-2 AWG Cu	4-2 AWG Cu	**D65PN-LC**

Y-Tap Fused (Hot)

Line side housing (receptacle) | Y Insert Assembly | Load side housing (plug)

Fuse (not included)

Description	2 Line Side Set Screw	1 Load Side Crimp	Part No.
Y-Tap Break-away, fused	10-2 AWG Cu/Al	12-6 AWG Cu	**82S-ADB1-C**
	10-2 AWG Cu/Al	4-2 AWG Cu	**82S-ADB1-LC**
	10-2 AWG Cu/Al	12-6 AWG Cu	**82S-EAFB1-C**
	10-2 AWG Cu/Al	4-2 AWG Cu	**82S-EAFB1-LC**

Y-Tap Non-Fused (Neutral)

Line side housing (receptacle) | Y Insert Assembly | Load side housing (plug)

Pin Contact

Description	2 Line Side Set Screw	1 Load Side Crimp	Part No.
Y-Tap Breakaway, non-fused	10-2 AWG Cu/Al	12-6 AWG Cu	**83S-ADB1-C**
	10-2 AWG Cu/Al	4-2 AWG Cu	**83S-ADB1-LC**
	10-2 AWG Cu/Al	12-6 AWG Cu	**83S-EAFB1-C**
	10-2 AWG Cu/Al	4-2 AWG Cu	**83S-EAFB1-LC**

CONSTRUCTION PRODUCTS BUCHANAN

ELECTRICAL CRIMP TERMINALS

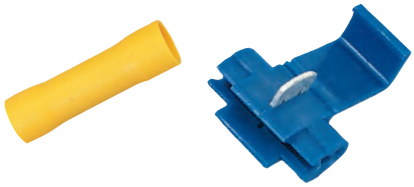
The complete line of IDEAL crimp terminals, disconnects and splices offer the right product for any electrical system that might be encountered. From rings and spades to insulated disconnects, there's a product for any wire range. All insulated terminals are color-coded for easy identification and come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

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

Rings & Forks

Disconnects

Splices



Durable plastic package for easy storage.

Ring Terminals

Vinyl Insulated Ring Terminals

Wire Range	Stud Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	6 (3,7mm)	0.157 (4,0mm)	25	**83-2121**	—	—
	8 (4,3mm)		25	**83-2131**	—	—
	10 (5,3mm)		25	**83-2141**	—	—
	1/4 (6,4mm)		25	**83-2151**	—	—
16 – 14 AWG (1,5 – 2,5mm²)	6 (3,7mm)	0.177 (4,5mm)	25	**83-2221**	—	—
	8 (4,3mm)		25	**83-2231**	—	—
	10 (5,3mm)		25	**83-2241**	1,000	**84-2241**
	1/4 (6,4mm)		25	**83-2251**	—	—
12 – 10 AWG (4,0 – 6,0mm²)	8 (4,3mm)	0.248 (6,3mm)	25	**83-2331**	—	—
	10 (5,3mm)		25	**83-2341**	1,000	**84-2341**
	1/4 (6,4mm)		25	**83-2351**	—	—
	5/16 (8,4mm)		25	**83-2361**	—	—
	3/8 (10,5mm)		25	**83-2371**	—	—

75˚C/600 Volts max.

Non-Insulated Ring Terminals

Wire Range	Stud Size	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	8 (4,3mm)	25	**83-0131**	—	—
	10 (5,3mm)	25	**83-0141**	—	—
16 – 14 AWG (1,5 – 2,5mm²)	6 (3,7mm)	25	**83-0221**	—	—
	8 (4,3mm)	25	**83-0231**	—	—
	10 (5,3mm)	25	**83-0241**	1,000	**84-0241**
12 – 10 AWG (4,0 – 6,0mm²)	8 (4,3mm)	25	**83-0331**	—	—
	10 (5,3mm)	25	**83-0341**	1,000	**84-0341**
	1/4 (6,4mm)	25	**83-0351**	—	—
8 AWG (8,0mm²)	10 (5,3mm)	25	**83-0421**	500	**84-0421**
	1/4 (6,4mm)	25	**83-0431**	—	—
	5/16 (8,4mm)	25	**83-0441**	—	—
	3/8 (10,5mm)	25	**83-0451**	—	—
6 AWG (14,0mm²)	10 (5,3mm)	20	**83-0511**	—	—
	1/4 (6,4mm)	20	**83-0521**	—	—
	5/16 (8,4mm)	20	**83-0531**	—	—
	3/8 (10,5mm)	20	**83-0541**	—	—
4 AWG (22,0mm²)	1/4 (6,4mm)	20	**83-0611**	—	—
	5/16 (8,4mm)	20	**83-0621**	—	—
	3/8 (10,5mm)	20	**83-0631**	—	—

105˚C/600 Volts max.

UL LISTED Wire Connector 774A Cu only c UL

Spade Terminals

Vinyl Insulated Spade Terminals

Wire Range	Stud Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	6 (3,7mm)	0.157 (4,0mm)	25	**83-7111**	1,000	**84-7111**
	8 (4,3mm)		25	**83-7121**	—	—
	10 (5,3mm)		25	**83-7131**	—	—
16 – 14 AWG (1,5 – 2,5mm²)	6 (3,7mm)	0.177 (4,5mm)	25	**83-7151**	—	—
	8 (4,3mm)		25	**83-7161**	1,000	**84-7161**
	10 (5,3mm)		25	**83-7171**	1,000	**84-7171**
12 – 10 AWG (4,0 – 6,0mm²)	6 (3,7mm)	0.248 (6,3mm)	25	**83-7201**	—	—
	8 (4,3mm)		25	**83-7211**	—	—
	10 (5,3mm)		25	**83-7221**	—	—
	1/4 (6,4mm)		25	**83-7231**	—	—

75˚C/600 Volts max.

UL LISTED Wire Connector 774A Cu only c UL

Vinyl Insulated Snap Spade Terminals

Wire Range	Stud Size	Max. Wire Ins. Dia.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	6 (3,7mm)	0.134 (4,0mm)	25	**83-7011**
	8 (4,3mm)		25	**83-7021**
	10 (5,3mm)		25	**83-7031**
16 – 14 AWG (1,5 – 2,5mm²)	6 (3,7mm)	0.161 (4,5mm)	25	**83-7051**
	8 (4,3mm)		25	**83-7061**
	10 (5,3mm)		25	**83-7071**
12 – 10 AWG (4,0 – 6,0mm²)	8 (4,3mm)	0.248 (6,0mm)	25	**83-7081**
	10 (5,3mm)		25	**83-7091**
	1/4 (6,4mm)		25	**83-7101**

75˚C/600 Volts max.

UL LISTED Wire Connector 774A Cu only c UL

Non-Insulated Spade Terminals

Wire Range	Stud Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	6 (3,7mm)	0.157 (4,0mm)	25	**83-6111**	—	—
	8 (4,3mm)		25	**83-6121**	—	—
	10 (5,3mm)		25	**83-6131**	—	—
16 – 14 AWG (1,5 – 2,5mm²)	8 (4,3mm)	0.177 (4,5mm)	25	**83-6161**	—	—
	10 (5,3mm)		25	**83-6171**	1,000	**84-6171**
12 – 10 AWG (4,0 – 6,0mm²)	8 (4,3mm)	0.248 (6,3mm)	25	**83-6211**	—	—
	10 (5,3mm)		25	**83-6221**	—	—
	1/4 (6,4mm)		25	**83-6231**	—	—

105˚C/600 Volts max.

UL LISTED Wire Connector 774A Cu only c UL

Disconnects

Vinyl Insulated Female Disconnects

Wire Range	Tab Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	.110 x .020 (2,8mm x 0,5mm)	0.150 (3,8mm)	25	**83-9511**	–	–
	.187 x .020 (4,75mm x 0,5mm)		25	**83-9541**	–	–
	.250 x .032 (6,35mm x 0,8mm)		25	**83-9571**	–	–
16 – 14 AWG (1,5 – 2,5mm²)	.110 x .020 (2,8mm x 0,5mm)	0.185 (4,7mm)	25	**83-9521**	–	–
	.187 x .020 (4,75mm x 0,5mm)		25	**83-9551**	–	–
	.250 x .032 (6,35mm x 0,8mm)		25	**83-9581**	500	**84-9581**
14 – 12 AWG (2,5mm – 4,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.244 (6,2mm)	25	**83-9591**	–	–
12 – 10 AWG (4,0 – 6,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.244 (6,2mm)	25	**83-9601**	500	**84-9601**

75˚C/600 Volts max.

Wire Connector 774A LISTED Cu only c UL

Vinyl Insulated Male Disconnects

Wire Range	Tab Size	Max. Wire Ins. Dia.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.150 (3,8mm)	25	**83-9971**
16 – 14 AWG (1,5 – 2,5mm²)	.250 x .032 (6,35mm x 0,8mm)	0.185 (4,7mm)	25	**83-9981**
12 – 10 AWG (4,0 – 6,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.244 (6,2mm)	25	**83-9991**

75˚C/300 Volts max.

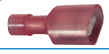
Wire Connector 774A LISTED Cu only c UL

Non-Insulated Female Disconnects

Wire Range	Tab Size	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	.110 x .020 (2,8mm x 0,5mm)	25	**83-9411**
16 – 14 AWG (1,5 – 2,5mm²)		25	**83-9421**
22 – 18 AWG (0,5 – 1,0mm²)	.187 x .020 (4,75mm x 0,5mm)	25	**83-9441**
16 – 14 AWG (1,5 – 2,5mm²)		25	**83-9451**
22 – 18 AWG (0,5 – 1,0mm²)	.250 x .032 (6,35mm x 0,8mm)	25	**83-9471**
16 – 14 AWG (1,5 – 2,5mm²)		25	**83-9481**
12 – 10 AWG (4,0 – 6,0mm²)		25	**83-9501**

105˚ C/300 Volts max. Not UL Listed.

Nylon Fully-Insulated Female Disconnects

Wire Range	Tab Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²) 	.250 x .032 (6,35mm x 0,8mm)	0.150 (3,8mm)	25	**83-9771**	1,000	**84-9771**
16 – 14 AWG (1,5 – 2,5mm²)		0.185 (4,7mm)	25	**83-9781**	1,000	**84-9781**
12 – 10 AWG (4,0 – 6,0mm²)		0.244 (6,2mm)	25	**83-9791**	500	**84-9791**

105˚ C/300 Volts max.

Wire Connector 774A LISTED Cu only c UL

Nylon Fully Insulated Male Disconnects

Wire Range	Tab Size	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.150 (3,8mm)	25	**83-9911**	500	**84-9911**
16 – 14 AWG (1,5 – 2,5mm²)		0.185 (4,7mm)	25	**83-9921**	500	**84-9921**
12 – 10 AWG (4,0 – 6,0mm²)		0.244 (6,2mm)	25	**83-9931**	500	**84-9931**

105˚ C/300 Volts max.

Wire Connector 774A LISTED Cu only c UL

Vinyl Insulated Multi-Stack Disconnects

Wire Range	Tab Size	Max. Wire Ins. Dia.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	.250 x .032 (6,35mm x 0,8mm)	0.150 (3,8mm)	25	**83-9611**
16 – 14 AWG (1,5 – 2,5mm²)		0.185 (4,7mm)	25	**83-9621**
12 – 10 AWG (4,0 – 6,0mm²)		0.244 (6,2mm)	25	**83-9631**

75˚C/300 Volts max.

Wire Connector 774A LISTED Cu only c UL

Disconnects

Vinyl Insulated Bullet Disconnects

Wire Range	Max. Wire Ins. Dia.	Qty.	Part No.
22 – 18 AWG (0,5mm – 1,0mm²)	0.150 (3,8mm)	25	**83-8001**
16 – 14 AWG (1,5 – 2,5mm²)	0.185 (4,7mm)	25	**83-8011**

75˚C/300 Volts max.

Wire Connector 774A LISTED Cu only c UL

Vinyl Fully-Insulated Receptacles

Wire Range	Max. Wire Ins. Dia.	Qty.	Part No.
22 – 18 AWG (0,5mm – 1,0mm²)	0.150 (3,8mm)	25	**83-8101**
16 – 14 AWG (1,5 – 2,5mm²)	0.185 (4,7mm)	25	**83-8111**

75˚C/300 Volts max.

Wire Connector 774A LISTED Cu only c UL

Non-Insulated Flag Female Disconnects

Wire Range	Tab Size	Qty.	Part No.	Qty.	Part No.
16 – 14 AWG (1,5 -2,5mm²)	0.250 x .032 (6,35mm x 0,8mm)	25	**83-9401**	500	**84-9401**

105˚C/300 Volts max. Not UL Listed.

Adapter - Male to Female (2-1)

Tab Size	Qty.	Part No.
0.250 x .032 (6,35mm x 0,8mm)	25	**83-9801**

105˚ C/300 Volts max. Not UL Listed.

Splices

Tap Splices

Wire Range	Color	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	Red	25	**83-3261**	250	**84-3261**
16 – 14 AWG (1,5 – 2,5mm²)	Blue	25	**83-3271**	—	—
12 – 10 AWG (4,0 – 6,0mm²)	Yellow	25	**83-3281**	—	—

75˚C/600 Volts max.

Wire Connector 774A LISTED Cu only c UL

Splices

Vinyl Insulated Butt Splices

Wire Range	Max. Wire Ins. Dia.	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	0.157 (4,0mm)	25	**83-9281**	1,000	**84-9281**
16 – 14 AWG (1,5 – 2,5mm²)	0.177 (4,5mm)	25	**83-9291**	1,000	**84-9291**
12 – 10 AWG (4,0 – 6,0mm²)	0.248 (6,3mm)	25	**83-9301**	500	**84-9301**

75˚C/600 Volts max.

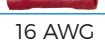
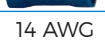
Wire Connector 774A LISTED Cu only c UL

Non-Insulated Butt Splices

Wire Range	Qty.	Part No.	Qty.	Part No.
22 – 18 AWG (0,5 – 1,0mm²)	25	**83-9001**	—	—
16 – 14 AWG (1,5 – 2,5mm²)	25	**83-9011**	—	—
12 – 10 AWG (4,0 – 6,0mm²)	25	**83-9021**	500	**84-9021**
8 AWG (8,0mm²)	25	**83-9031**	250	**84-9031**
6 AWG (14,0mm²)	20	**83-9041**	—	—
4 AWG (22,0mm²)	20	**83-9051**	—	—

105˚ C/600 Volts max. Not UL Listed.

Vinyl Insulated Parallel Splices

Wire Range	Max. Wire Ins. Dia.	Qty.	Part No.
20 AWG (0,5mm²) 	0.157 (4,0mm)	25	**83-9351**
16 AWG (1,5mm²) 	0.177 (4,5mm)	25	**83-9361**
14 AWG (2,5mm²)	0.248 (6,3mm)	25	**83-9371**

75˚C/600 Volts max.

Wire Connector 774A LISTED Cu only c UL

Non-Insulated Parallel Splices

Wire Range	Qty.	Part No.	Qty.	Part No.
20 AWG (0,5 – 1,0mm²)	25	**83-9071**	—	—
16 AWG (1,5 – 2,5mm²)	25	**83-9081**	1,000	**84-9081**
14 AWG (4,0 – 6,0mm²)	25	**83-9091**	1,000	**84-9091**

105˚ C/600 Volts max. Not UL Listed.

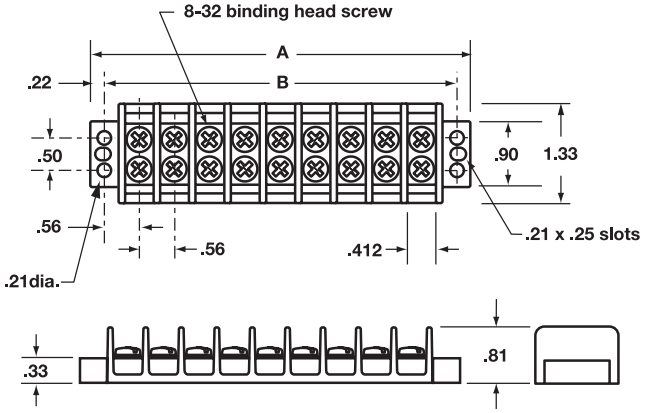
TERMINAL STRIPS

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

- Heavy-duty, corrosion-resistant screws, surface plates and optional hardware
- Accessory hardware provides a variety of termination options
- Rugged polyester thermoplastic base (UL Rated 94V-0)
- Operating temperature rated from 130˚C (260˚F) to -40˚C (-40˚F)
- UL Recognized (E82048) and CSA Certified (LR15364)

89-200 Series Terminal Strips

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

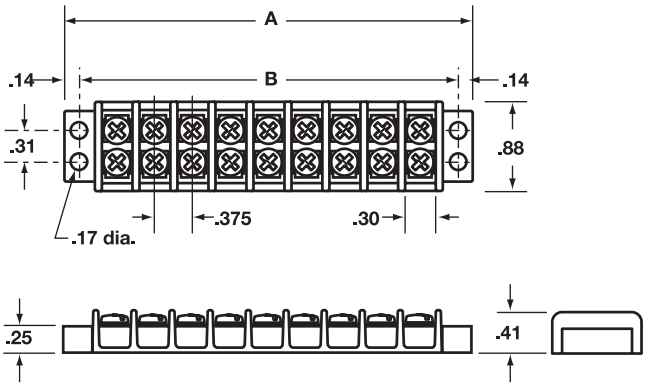


No. of Poles	Dimensions (Inches)		Part No.
	A	B	
2	2.13	1.69	**89-202**
3	2.69	2.25	**89-203**
4	3.25	2.81	**89-204**
6	4.37	3.94	**89-206**
8	5.50	5.06	**89-208**
10	6.62	6.19	**89-210**
12	7.75	7.31	**89-212**

Ratings: 30A/600V UL Listed, CSA Certified (30A/250V when used with optional quick connects).

89-300 Series Terminal Strips

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

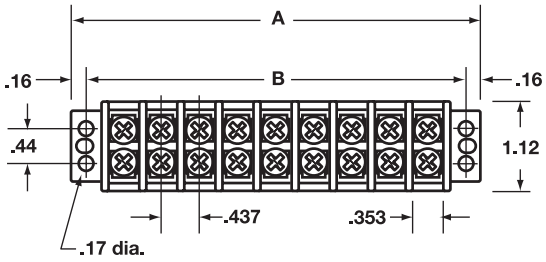


No. of Poles	Dimensions (Inches)		Part No.
	A	B	
2	1.40	1.12	**89-302**
4	2.16	1.88	**89-304**
6	2.90	2.62	**89-306**
8	3.66	3.38	**89-308**
10	4.40	4.12	**89-310**
12	5.16	4.88	**89-312**

Ratings: 30A/300V UL Listed, 20A/150V CSA Certified (15A/125V when used with optional quick connects).

89-400 Series Terminal Strips

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



No. of Poles	Dimensions (Inches)		Part 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**

Ratings: 30A/300V UL Listed, CSA Certified.

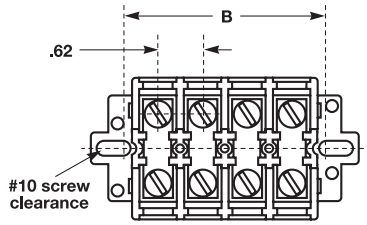
Jumpers

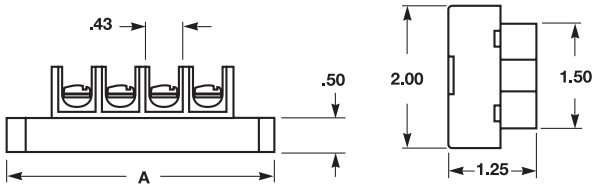
- Provides easy connection of multiple circuits

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

89-500 Series Terminal Strips

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





No. of Poles	Dimensions (Inches)		Standard Block Part No.	Shorting Block Part 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**

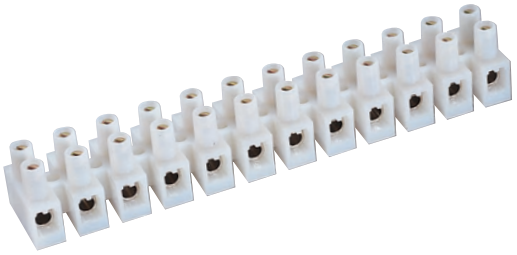
Ratings: 60A/600V UL Listed, CSA Certified (Max. rating achieved with #6 AWG Cu wire crimped to ring terminals)

Quick Connects

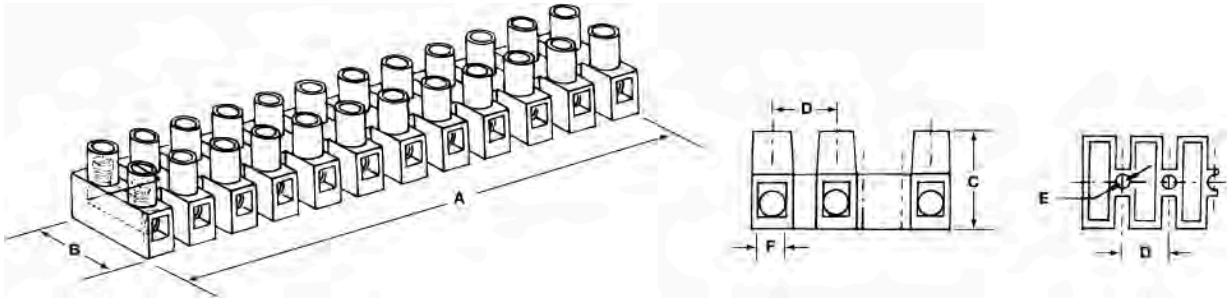
- Allows fast, flexible circuit changes

For use w/ Terminal Strip Series	Tab Size (in.)	Qty.	Flat-None Part No.	Flat-Flat Part No.
89-300	.187 x .020	10	**89-314**	**89-317**
89-200 & 89-400	.250 x .031	10	**89-414**	**89-417**

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)



Electrical Ratings	Wire Range	No. of Circuits	Torque in.- lb.	Dimensions (Inches)						Part No.
				A	B	C	D	E	F*	
20A/300V UL 20A/600V CSA	22 - 12 AWG	12	3.5	3.787	0.669	0.570	0.315	0.114	0.110	**89-608**
30A/300V UL 30A/600V CSA	22 - 10 AWG 22 - 12 AWG	12	4.4	4.626	0.795	0.670	0.394	0.142	0.134	**89-610**
35A/300V UL/cUL	22 - 10 AWG	12	7.0	5.540	0.937	0.748	0.472	0.154	0.154	**89-612**
50A/300V UL/cUL	20 - 8 AWG	12	12.0	6.220	1.008	0.992	0.531	0.173	0.189	**89-614**

*Plus or minus .004 in.

INSULATION CONNECTORS

B-TAP® Insulation Piercing Connectors

Safe, dependable and easy. The Buchanan B-TAP® Insulation Piercing Connector offers a breakaway torque nut that guarantees a perfect connection every time, no more guesswork. It simply snaps off when UL torque requirements are met. The grease-filled rubber end caps provide superior water and corrosion resistance, while the insulation-piercing design eliminates downtime and power interruptions.

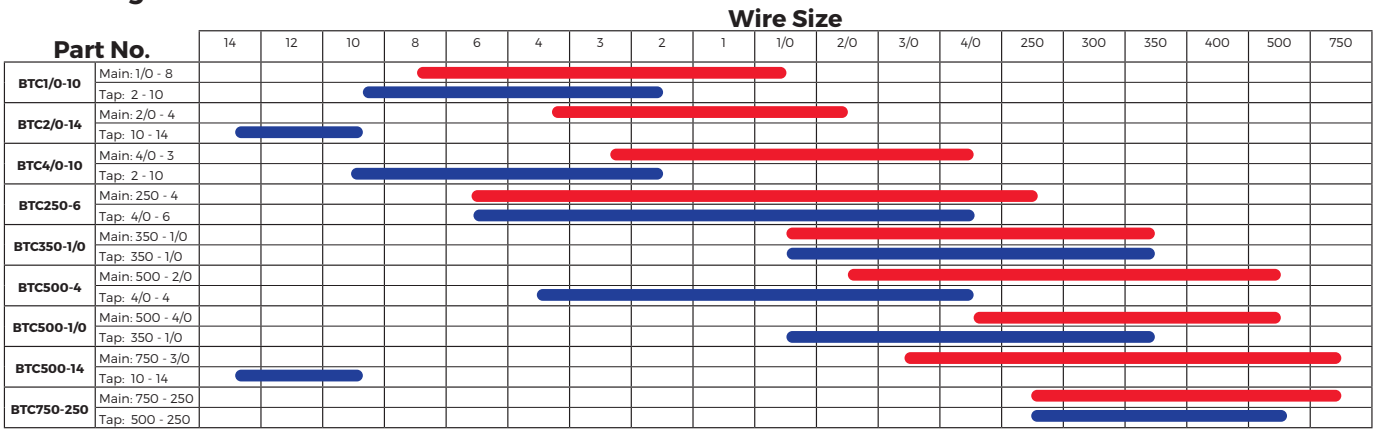
That translates into a 60% installed cost savings compared to split bolts. Installation is easy; all you need is a standard socket or wrench. B-TAP® Connectors can be safely installed on energized systems, eliminating power interruptions and downtime.

B-TAP® Connectors...EASY AS 1, 2, 3.

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

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

Wire Range Chart



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

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

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

TOOLS & SUPPLIES

PROFESSIONAL QUALITY, INNOVATIVE SOLUTIONS

When it comes to quality, performance, and durability, IDEAL is the professional choice for hand tools, fish tapes, benders, lubricants, power tool accessories, electrical supplies, and much more. Electricians know what it takes to on the job in today's world and IDEAL tools & supplies fulfill their needs through performance and innovation. With a full line of professional grade tools and supplies, IDEAL supports electrician's and contractor's needs. Continuing to evolve and investing in manufacturing and engineering, IDEAL has been providing professional grade tools and supplies since 1916.

WIRE FISHING

Fish Tapes B-4
Fishing Poles B-7
Wire Pulling Lubricants B-9
Pulling Supplies B-12

HAND TOOLS

Conduit Benders B-16
Wire Strippers B-18
Wire Cutters B-20
Pliers B-22
Saws B-24
Knives B-25
Levels B-25
Crimp Tools B-26
Cable Cutters B-27
Multi-Bit Screwdrivers B-30
Twist-a-Nut™ Screwdrivers/ Nut Drivers B-31
Cushioned-Grip Screwdrivers B-33
Nut Drivers B-36
Industrial Bits B-39
Insulated Tools B-42
Tool Carriers/Pouches B-48
Tool Kits B-55

POWER TOOL ACCESSORIES

Carbide Cutters B-62
Step Bits B-65
Drill Taps B-66
Hole Saws B-67

POWER TOOL ACCESSORIES

Auger Bits B-70
Reciprocating Blades B-71
Flex Bits / Spade Bits B-73

ELECTRICAL TAPE / SEALANT

Electrical Tapes B-75
Specialty Tapes B-76
Insulating Wraps B-78
Underground Tapes B-79
Barricade Tapes B-80
Duct Seal B-80

WIRE MANAGEMENT

Cable Ties B-82
Cable Tie Tools B-87
Wire Markers B-88
Staples B-89
Switches B-91

HEAT SHRINK

Thermo-Shrink® Heat Shrink B-94

LOCKOUT/TAGOUT

Kits B-99
Lockouts B-104
Padlocks B-107
Tags B-107
Signs B-108
Conduit Markers B-108

PLIERS
Page B-21

THE ELECTRICIAN'S
CHAMPION™
IDEAL®

WIRE FISHING

Type

Blued-Steel™

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

Stainless Steel

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

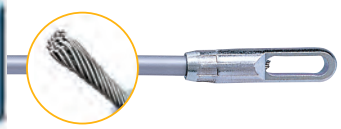
S-Class®

- Non-conductive fiberglass tape for use around live circuits
- Omni-directional pushing
- 3 tip choices - leader, metal eyelet and non-conductive eyelet
- Pulling strength 500 lbs.

Volt-Guard

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

Zoom™



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

Gold-Fish®

- Brass-plated coiled steel
- Kink proof
- Tensile strength 700 lbs.

Cases

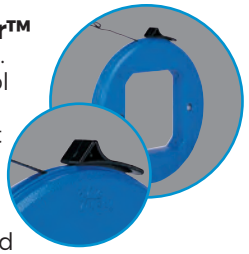
Tuff-Grip™ Pro

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

Rapid-Pak®

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

Thumb Winder™



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

⚠ WARNING

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

The Fish Tape square inlay with notched corner combined with an ergonomic handle is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

The blue color of the Fish Tape products is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

Blued-Steel™ Fish Tapes

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

Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Thumb-Winder™	Replacement Tapes (No Case)
25	1/8 in. x .045 in.	7 in.	Formed hook	–	**31-012**	–
50	1/8 in. x .045 in.	7 in.		–	**31-010**	–
	1/8 in. x .060 in.	9 in.		**31-033**	–	**31-004**
60	1/8 in. x .060 in.	12 in.		**31-055**	–	**31-035**
120				**31-056**	–	**31-036**
240				**31-057**	–	**31-038**
50	1/4 in. x .060 in.	12 in.		**31-059**	–	**31-051**
100				**31-058**	–	**31-050**
200	1/4 in. x .060 in.	None		–	–	**31-052**
400				–	–	**31-2128**
—				–	–	**31-2982***

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

Stainless Steel Fish Tapes

- Laser etched in 12 in. increments to provide instant conduit length
- Tape will not rust or corrode in humid environments
- Stainless steel design provides a smooth pay-out

Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tape (No Case)
120	1/8 in. x .060 in.	12 in.	Formed hook	**31-066**	—
240				**31-067**	**31-074**

Zoom™ Fish Tapes

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

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

*Traditional handle

The Fish Tape square inlay with notched corner combined with an ergonomic handle is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

The blue color of the Fish Tape products is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

S-Class® Fiberglass Fish Tapes

- Non-conductive tape
- Structural glass core provides a more durable fiberglass tape
- Fiberglass core with nylon outer jacket provides durability

Length (ft.)	Diameter	Case Diameter	End Type	Tuff-Grip™ Pro	Rapid-Pak®	Replacement Tapes (No Case)
50	3/16 in.	12 in.	Leader	**31-060**	**31-187**	**31-150**
			Metal Eyelet	**31-062**	**31-190**	**31-160**
			Non-Conductive Eyelet	**31-086**	–	**31-200**
100	3/16 in.	12 in.	Leader	**31-061**	**31-186**	**31-152**
			Metal Eyelet	**31-063**	**31-189**	**31-162**
			Non-Conductive Eyelet	**31-087**	–	**31-201**
200	3/16 in.	16 in.*	Leader	**31-064**	**31-207**	**31-155**
			Metal Eyelet	**31-065**	**31-208**	**31-165**
			Non-Conductive Eyelet	**31-088**	–	**31-202**

*Traditional handle

Volt-Guard Fish Tapes

- Light-duty non-conductive tape for use around live circuits
- Elliptical design gives the Volt-Guard greater pushing power
- Repair kit available, order #31-541

Length (ft.)	Width & Thickness	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tapes (No Case)
60	3/16 in. x .094 in.	12 in.	Non-Conductive Eyelet	**31-542**	**31-552**
120				**31-544**	**31-554**

Gold-Fish® Fish Tape

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

Length (ft.)	Diameter	Case Diameter	End Type	Tuff-Grip™ Pro	Replacement Tape (No Case)
50	3/16 in.	12 in.	Metal Eyelet	**31-144**	**31-141**

The Fish Tape square inlay with notched corner combined with an ergonomic handle is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

The blue color of the Fish Tape products is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

Fish Tape Leaders

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

Description	Part No.
Fish Tape Leader for steel or stainless steel tapes	**31-148**

Fish Tape Swivel Ball

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

Description	Part No.
Fish Tape Swivel Ball	**31-085**

Tuff-Grip™ Pro Accessories

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

Description	Part No.
Fish Tape Parts Kit	**KB-0173**
Screws* (not included, kit requires 4)	**LA-4218**

*Screws not included, must be ordered separately.

Fish Tape Non-Conductive Tip Replacement Kits

31-203

31-541

- Easy to apply
- Each kit includes two eyelets & adhesive

Description	Part No.
Volt-Guard Fish Tape Repair Kit	**31-541**
S-Class® Fish Tape Repair Kit	**31-203**

Fish Tape Field Application Repair Kits

- For use on S-Class® & Zoom™ Fish Tapes
- Crimps on new eyelet or leader in minutes
- Dies can be used with Crimpmaster™ Crimp Tool
- Connection guaranteed to withstand 500 lbs.

31-158

31-166

31-156

Description	Part No.
Field Application Kit includes: Crimpmaster™ Crimp Tool frame (30-506), 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 (for those who already have a Crimpmaster™ Crimp Tool)	**31-164**
Replacement eyelets (4) for S-Class® Fish Tapes & adhesive	**31-158**
Replacement leaders (4) for S-Class® Fish Tapes & adhesive	**31-159**
Replacement eyelets (2) for Zoom™ Fish Tapes	**31-094**
Die Set Only (for those who already have a Crimpmaster™ Crimp Tool)	**31-166**

The Fish Tape square inlay with notched corner combined with an ergonomic handle is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

The blue color of the Fish Tape products is a registered trademark of IDEAL INDUSTRIES, INC. Reg. U.S. Pat. & Tm. Off.

Tuff-Rod™ Regular Flex Fishing Poles

- Strong, lightweight, flexible extendable fiberglass rod kits
- Use to reach and pull wires over suspended ceilings, in cable trays or through interior walls
- Packaged in clear tubes for protection and long-term storage
- 1/4 in. white fiberglass
- Extra stiffness for added control when maneuvering wires

Description	Length	Diameter	Sections	Part No.
Threaded bullet nose and threaded J hook end	12 ft. total	1/4 in.	3 ea. 4 ft.	**31-611**
	24 ft. total		4 ea. 6 ft.	**31-612**
Replacement Rods	4 ft. x 12		12 ea. 4 ft.	**31-643**
	6 ft. x 12		12 ea. 6 ft.	**31-644**

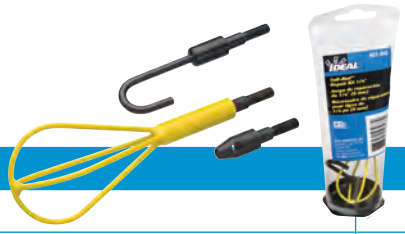
Tuff-Rod™ Extra Flex Glow Fishing Poles

- Strong, lightweight, flexible extendable fiberglass rod kits
- Use to reach and pull wires over suspended ceilings, in cable trays or through interior walls
- Packaged in clear tubes for protection and long-term storage
- 3/16 in. pale green luminescent fiberglass
- Glow-in-the-dark material for easy use in attics, basements and other dimly lit areas

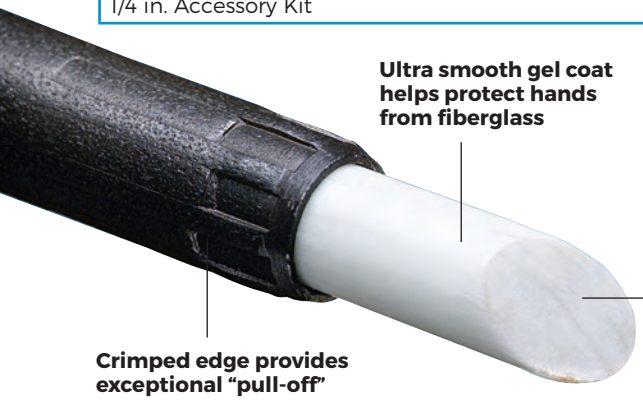
Description	Length	Diameter	Sections	Part No.
Threaded bullet nose and threaded J hook end	8 ft. total	3/16 in.	2 ea. 4 ft.	**31-654**
	12 ft. total		3 ea. 4 ft.	**31-631**
	15 ft. total		3 ea. 5 ft.	**31-653**
	30 ft. total		5 ea. 6 ft.	**31-633**
Replacement Rods	4 ft. x 12		12 ea. 4 ft.	**31-647**
	6 ft. x 12		12 ea. 6 ft.	**31-648**

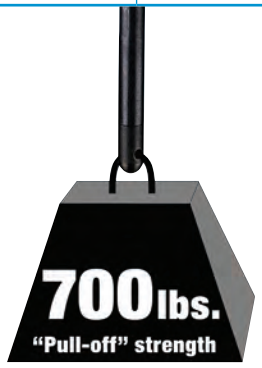
Tuff-Rod™ Accessory Kits

- Includes replacement heads: one threaded bullet nose, one threaded J hook and one threaded whisk



Description	Part No.
3/16 in. Accessory Kit	**31-651**
1/4 in. Accessory Kit	**31-652**





WIRE LUBRICANTS & PULLING ACCESSORIES

Application Selection

	Commercial	Utility
Temperature Range	40˚F - 120˚F (4˚C - 49˚C)	-28˚F - 120˚F (-33˚C - 49˚C)
Length of Run	Up to 75 ft. (finished construction) Up to 1,200 ft. (new construction)	Up to 250 ft.
Installation Time	8 hrs.	24 hrs.
Best Choice	ClearGlide® (finished construction) Yellow 77® and Yellow 77® Plus (new construction)	Aqua-Gel® II & Velocity™ (indoors, outdoors) Aqua-Gel® CW & IIP (outdoors)

Product Selection

	Yellow 77®	Yellow 77® Plus	ClearGlide®	Aqua-Gel® II	Aqua-Gel® IIP	Aqua-Gel® CW	Velocity™
Color	Yellow	Yellow	Clear	Blue	Blue	Pink	Cream
Base	Wax	Wax	Polymer	Polymer	Polymer	Polymer	Polymer
Average Coefficient of Friction*	.17	.16	.23	.19	.19	.19	.16
Stability Range	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 – 180˚F (-2˚C – 82˚C)	28˚F – 180˚F (-2˚C – 82˚C)	-28˚F – 190˚F (-33˚C – 82˚C)	25˚F – 140˚F (-3.9˚C – 60˚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)	40˚F – 100˚F (4˚C – 38˚C)	-28˚F – 40˚F (-33˚C – 4˚C)	40˚F – 140˚F (4˚C – 82˚C)
Compatibility (Cable Types):							
Rubber	●	●	●	●	●	●	●
Neoprene	●	●	●	●	●	●	●
Nylon	●	●	●	●	●	●	●
PVC	●	●	●	●	●	●	●
High-density or cross-linked polyethylene	●	●	●	●	●	●	●
Low-density polyethylene		●	●	●	●	●	●
Semi-conducting jacket		●	●	●	●	●	●
Hypalon	●	●	●	●	●	●	●

*Results from NEETRAC, an independent testing laboratory affiliated with The Georgia Institute of Technology.

Recommended Qty. of Lubricant Formula

Q = .0015 x L X D

Q = Quantity of recommended lube in gallons
L = Length of pull in feet
D = Nominal ID of conduit in inches

This formula may be used as a guideline for estimating the quantity of lubricant needed for various jobs. Many additional factors may impact quantity needed. Increase quantities if any of the following apply:

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

Yellow 77® Plus Wire Pulling Lubricant

- Rapid Glide™ polytetrafluoroethylene additive provides greater lubricity than other wax-based lubricants — great for tough pulls
- Safe to use with all cable types
- Clings to cable throughout long runs, even where moisture is present
- Remains stable in high temperatures — usable from 32˚F to 190˚F (0˚C to 88˚C)
- Dries slowly to a thin, non-conductive film
- Creamy texture applies easily and uniformly by hand or brush
- 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	Part No.
1-qt. Squeeze Bottle	**31-398**
1-gal. Bucket	**31-391**
5-gal. Bucket	**31-395**

UL LISTED

Yellow 77® Wire Pulling Lubricant

- The #1 brand of wire pulling lubricant since 1959
- 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 slowly to a thin, non-conductive film
- Creamy texture applies easily and uniformly by hand or brush
- 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	Part No.
1-qt. Squeeze Bottle	**31-358**
1-gal. Bucket	**31-351**
5-gal. Bucket	**31-355**
55-gal. Drum	**31-365**

UL LISTED

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 datacom applications
- Safe to use with all cable types
- Controlled evaporation rate is ideal for shorter runs
- Remains stable over wide temperature ranges — usable from 32˚F to 180˚F (0˚C to 82˚C)
- Dries to a semi-fluid film
- Easy to apply by hand, brush or pump
- Environmentally safe — non-toxic, non-flammable and non-corrosive

Description	Part No.
1-qt. Squeeze Bottle	**31-388**
1-gal. Bucket	**31-381**
5-gal. Bucket	**31-385**
55-gal. Drum	**31-2143**

UL LISTED

Aqua-Gel® II Cable Pulling Lubricant

- Polymer-based formula provides maximum tension reduction in high-stress electrical and communication cable-pulling operations
- 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 indoor and outdoor use

Description	Part No.
1-qt. Squeeze Bottle	**31-378**
1-gal. Bucket	**31-371**
5-gal. Bucket	**31-375**
55-gal. Drum	**31-3855**

UL LISTED

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 clean and safe job

- Cleans up easily with soap and water
- Environmentally safe – non-toxic, non-flammable and non-corrosive
- For outdoor use

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

UL LISTED

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
- For outdoor use

Description	Part No.
1-qt. Squeeze Bottle	**31-298**
1-gal. Jug	**31-291**
5-gal. Bucket	**31-295**

UL LISTED

Velocity™ Wire Pulling Lubricant

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

LISTED

Description	Part No.
1-qt. Squeeze Bottle	**31-276**
1-gal. Bucket	**31-277**
5-gal. Bucket	**31-278**

Noalox® Anti-Oxidant

- Anti-oxidant compound improves efficiency and service life of aluminum electrical connections
- Suspended zinc particles penetrate and cut aluminum oxide
- Provides additional inner-strand and inner-conductor current paths for improved conductivity and cooler connections

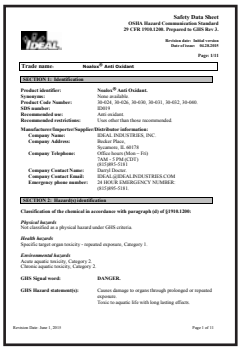
- Carrier material excludes air to minimize further oxidation
- For use with pressure-type wire connectors including lugs, taps, service entrances and split-bolts
- Reduces galling and seizing when applied on aluminum conduit joints promoting good ground continuity

LISTED

Description	Part 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**
55-gal. Drum	**30-1216**

Compatible with aluminum to aluminum and aluminum to copper connections.

For a Safety Data Sheet on lubricants and other products visit us at idealind.com.



Safety Data Sheet
OSHA Hazard Communication Standard
29 CFR 1910.1200. Prepared to GHS Rev 3.

Trade name: Noalox® Anti-Oxidant

SECTION 1: Identification

SECTION 2: Hazard(s) identification

Pro-Pull™ Measuring Pull Tape

Save time and money with Pro-Pull™ Measuring Pull Tape. Made from woven polyester fiber, Pro-Pull™ Measuring Pull Tape maintains softness for less hand damage than traditional polypropylene rope while minimizing stretch and maximizing abrasion resistance. Pro-Pull™ is clearly printed with tensile strength, sequential footage markings, printing dates, and lot tracing for easy product identification and peace of mind.

- Highly legible sequential footage markings
- Increased efficiency, measure and pull in a single step
- Enhanced softness reduces hand damage
- High quality standards including lot tracing

Description	Tensile Strength (lb.)	Width (in.)	Length (ft.)	Part No.
Buckets				
Pro-Pull™ Measuring Pull Tape	400	1/4	4,500	**31-400B-45**
	1,800	1/2	1,300	**31-1800B-13**
Reels				
Pro-Pull™ Measuring Pull Tape	1,250	1/2	1,000	**31-1250-10**
	1,250	1/2	3,000	**31-1250-30**
	1,250	1/2	5,000	**31-1250-50**
	1,800	5/8	1,000	**31-1800-10**
	1,800	5/8	3,000	**31-1800-30**
	1,800	5/8	5,000	**31-1800-50**
	2,500	3/4	1,000	**31-2500-10**
	2,500	3/4	1,500	**31-2500-15**
	2,500	3/4	3,000	**31-2500-30**

Pro-Pull™ Conduit Measuring Tape

Pro-Pull™ Conduit Measuring Tape makes measurement of conduit runs quick and easy. Made from a stranded polyester fiber, Pro-Pull™ Conduit Measuring Tape will not rot or mildew and can be left in the conduit for future use.

- Highly legible sequential footage markings
- Easily blown through conduit
- Will not rot or mildew

Description	Tensile Strength (lb.)	Length (ft.)	Part No.
Pro-Pull™ Conduit Measuring Tape	160	3,000	**31-0160-30**

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

STANDARD DUTY 190 LBS.

Description	Tensile Strength	Length	Part No.
Valu-Line™ Pull-Line	190 lbs.	Bucket of 6,500 ft.	**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

HEAVY DUTY 210 LBS.

Description	Tensile Strength	Length	Part No.
Powr-Fish® Pull-Line	210 lbs.	Canister of 500 ft.	**31-348**
Powr-Fish® Pull-Line	210 lbs.	Bucket of 6,500 ft.	**31-340**

Conduit Measuring Tape

- Provides quick and accurate measurement of conduit runs
- Easy-to-read markings in sequential one-foot increments
- 160 lb. tensile strength
- Pulls rope through raceways without stretching
- Will not rot or mildew

Description	Tape Width	Length	Part No.
Conduit Measuring Tape	3/16 in.	3,000 ft.	**31-347**

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

EXTRA HEAVY DUTY 500 LBS.

Description	Tensile Strength	Length	Part No.
Powr-Fish® Pull-Line	500 lbs.	Bucket of 2,200 ft.	**31-344**

Foam Carriers

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

Description	Quantity	Part No.
1/2 in. Foam Carrier	Bag of 1	**31-316**
3/4 in. Foam Carrier		**31-317**
1 in. Foam Carrier		**31-318**
1-1/4 in. Foam Carrier		**31-319**
1-1/2 in. Foam Carrier		**31-320**
2 in. Foam Carrier		**31-321**
2-1/2 in. Foam Carrier		**31-322**
3 in. Foam Carrier		**31-323**
3-1/2 in. Foam Carrier		**31-324**
4 in. Foam Carrier		**31-325**
5 in. Foam Carrier		**31-326**
6 in. Foam Carrier		**31-327**

Foam Carriers - Multi-Packs

Description	Quantity	Part No.
1/2 in. Foam Carrier	Bag of 5	**31-466**
3/4 in. Foam Carrier		**31-467**
1 in. Foam Carrier		**31-468**
1-1/4 in. Foam Carrier	Bag of 3	**31-469**
1-1/2 in. Foam Carrier	Bag of 2	**31-470**
2 in. Foam Carrier		**31-471**

Pro-Pull™ Rope

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

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

† Eye splice on working end.

Line Packages

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

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

CONDUIT BENDERS

Bender Heads

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

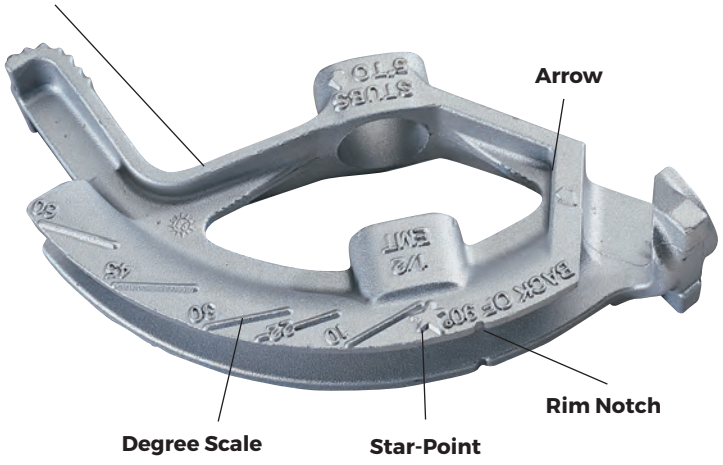
Handles

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

#1 BRAND* IN HAND BENDERS

*According to Electrical Distribution Vista data (Q3, 2020).

High-strength ductile iron or light aluminum



Ductile Iron Benders

- Withstands a lifetime of heavy use
- Strong iron material

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

Aluminum Benders

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

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

Bender/BenderBoot™ Combos

- Grooved patented foot provides stability and leverage while bending on smooth surfaces
- Textured tread and hand grip provide support for saddle and offset bends
- Easy to push-on and remove

Description	Part No.
1/2 in. EMT Ductile Iron Bender (74-026) w/BenderBoot™	**74-126**
3/4 in. EMT, 1/2 in. Rigid & 1/2 in. IMC Iron Bender (74-027) w/BenderBoot™	**74-127**

BenderBoot™

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

Description	Part No.
BenderBoot™	**74-037**

Pocket Bender Guide

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

FREE

Description	Part No.
Pocket Bender Guide	**P-100**

Guide can be downloaded from our website at idealind.com.

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

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

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

1/2" EMT

WIRE STRIPPERS

Kinetic® & Kinetic® Super Reflex™ T®-Stripper

- Thumb Valley™ Protection
- Pocket Locket Locking Hasp
- Shear Cut Bolt Cutters
- Textured Thermoplastic Grips
- Ergonomic Textured Handles

Reflex™ Super T®-Stripper

- Locking Pawl
- Bolt Cutting
- Extended Textured Comfort
- Ergonomic Handles

Reflex™ Premium T®-Stripper

- Textured Thermoplastic Grips
- Ergonomic Textured Handles

T®-Stripper Wire Stripper

- Compact, lightweight
- Precision-ground, knife-type blades
- Built-in looping holes, wire cutters and plier nose
- Straight Handles

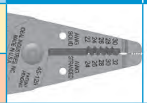
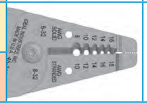
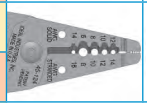
Forged Wire Strippers

- Precision stripping holes with heavy duty plier nose and recessed holes for low profile bolt cutting
- Wide nose to twist multiple wires simultaneously
- Ergonomic Smart-Grip™ textured handles for improved grips

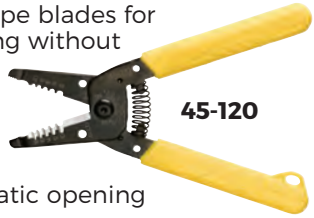
Stainless Steel Wire Strippers

- Stainless steel for added corrosion resistance
- Textured sleeves with extra cushioning for added comfort

T®-Stripper Wire Stripper Selection Guide

6	8	10	12	14	16	18	20	22	24	26	28	30	Hole Size		45-100's	45-200's	45-400's	45-600's	45-700's	45-900's
8	10	12	14	16	18	20	22	24	26	28	30	32								
								22	24	26	28	30	Solid		45-125	–	45-417	–	–	–
								24	26	28	30	32	Str.							
				14	16	18	20	22	24				Solid		45-121	–	45-416	–	45-716	–
				16	18	20	22	24	26				Str.							
		10	12	14	16	18							Solid		45-120	–	45-415	–	45-715	45-915
		12	14	16	18	20							Str.							
	8	10	12	14	16								Solid		–	–	–	45-615	–	–
	10	12	14	16	18								Str.							
6	8	10	12	14									Solid		45-124	–	45-418	45-618	45-718	45-918
8	10	12	14	16									Str.							
	8	10	12	14	16								Solid		45-110	–	–	–	–	–
	10	12	14	16	18								Str.							
		10	12	14	16	18	20						Solid		–	45-220	–	–	–	–
		12	14	16	18	20	22	22					Str.							
		10	12	14	16	18							Solid		–	45-221	–	–	–	–
				16	18	20	22	24	26				Str.							
													T®-Cutter		45-123	–	–	–	–	–

T®-Stripper Wire Strippers

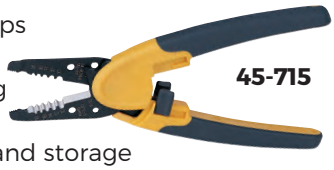


- Form-ground, knife-type blades for accurate, easy stripping without nicking conductor
- Laser-etched wire gauge for easy-to-read visibility
- Spring-loaded automatic opening
- Corrosion-resistant, black oxide finish
- Tough steel construction

Description	Solid	Stranded	Part No.
T®-5 T®-Stripper Wire Stripper	10-18 AWG	12-20 AWG	**45-119***
T®-5 T®-Stripper Wire Stripper			**45-120**
T®-6 T®-Stripper Wire Stripper	14-24 AWG	16-26 AWG	**45-121**
T®-7 T®-Stripper Wire Stripper	22-30 AWG	24-32 AWG	**45-125**
T®-8 T®-Stripper Wire Stripper	6-14 AWG	8-16 AWG	**45-124**
T®-Stripper Wire Stripper – Metric	0,75-6mm²		**45-120-341**
T®-Stripper Wire Stripper – Metric	0,5-4mm²		**45-125-341**

*Handle contains red, white and blue grips.

Kinetic® Super Wire Strippers



- Non-slip textured grips and thumb rest
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easy and accurate

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

Kinetic® Reflex™ T®-Stripper Wire Strippers

- Non-slip textured grips and thumb rest
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easy and accurate

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

Reflex™ Super T®-Stripper Wire Strippers

- 6/32 and 8/32 self-chasing screw-cutting holes
- Ergonomic design for maximum comfort
- Curved handles help reduce wrist fatigue
- Textured sleeves with extra cushioning for added comfort

Description	Solid	Stranded	Part No.
Reflex™ Super T®-Stripper Wire Stripper	8-16 AWG	10-18 AWG	**45-615**
			45-619*
	6-14 AWG	8-16 AWG	**45-618**
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper Wire Stripper	12-2 and 14-2 AWG	–	**45-621**

*Handle contains red, white and blue grips.

Reflex™ Premium T®-Stripper Wire Strippers

- Ergonomic design for maximum comfort
- Curved handles help reduce wrist fatigue
- Textured sleeves with extra cushioning for added comfort

Description	Solid	Stranded	Part No.
Reflex™ Premium T®-Stripper Wire Stripper	10-18 AWG	12-20 AWG	**45-415**
	14-24 AWG	16-26 AWG	**45-416**
	22-30 AWG	24-32 AWG	**45-417**
	6-14 AWG	8-16 AWG	**45-418**
Reflex™ Premium T®-Stripper – Metric	0,5mm²-4,0mm²		**45-425-341**

T®-Stripper Wire Strippers (Stainless Steel)

- 6/32 and 8/32 self-chasing screw-cutting holes
- Ergonomic design for maximum comfort
- Curved handles help reduce wrist fatigue
- Textured sleeves with extra cushioning for added comfort

Description	Solid	Stranded	Part No.
T®-Stripper Wire Stripper	10-20 AWG	12-22 AWG	**45-220**
Reflex™ Super T® Stripper Wire Stripper	10-18 AWG	16-26 AWG	**45-221**
Reflex™ Super T® Stripper Dual NM Wire Stripper	12/2 & 14/2	–	**45-222**

Forged Heavy-Duty Wire Strippers

- 6-32/8-32 screw cutting hole
- Precision stripping holes with heavy duty plier nose and recessed holes for low profile bolt cutting
- Wide nose to twist multiple wires simultaneously
- Unique plier head design to ream conduit
- Crimper
- Ergonomic Smart Grip textured handles for improved grips

45-110

45-113

Description	Solid	Stranded	Part No.
Forged Heavy-Duty Wire Stripper	8-16 AWG	10-18 AWG	**45-110**
Forged Heavy-Duty Dual NM Wire Stripper	12/2 & 14/2	—	**45-112**
Forged Heavy-Duty Long-Nose Wire Stripper	10-18 AWG	12-20 AWG	**45-113**

1000V Insulated T®-5 Wire Stripper

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

Description	Solid	Stranded	Part No.
1000V Insulated Wire Stripper	10-18 AWG	12-20 AWG	**45-9120**

NM Cable Dual-Hole T®-Stripper Wire Strippers

- Stripping holes for stripping two 12 AWG or two 14 AWG wires simultaneously

45-247

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

Lil' Ripper Stripper™

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

Description	Part No.
Lil' Ripper Stripper™	**45-025**

V-Notch Stripper

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

Description	Part 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	Part No.
Multi-Crimp Strip Tool	**45-778**

Combo Tool

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

Description	Solid	Stranded	Part No.
Combo Tool	8-20 AWG	10-22 AWG	**30-428**

7-in-1 Stripper

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

Description	Solid	Stranded	Part No.
7-in-1 Stripper	6-16 AWG	8-18 AWG	**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

Description	Part No.
Coax Strip & Crimp Tool	**30-433**

T®-Cutter Wire Cutter

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

Description	Part No.
T®-Cutter Wire Cutter	**45-123**

Data T®-Cutter Wire Cutter

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

Description	Part No.
Data T®-Cutter	**45-074**

Cable Ripper

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

Description	Part No.
Side Entry Cable Ripper	**45-118SRS**

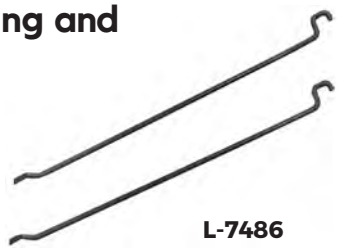
Underground Feeder (UF) Cable Stripper

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

Description	Part No.
Underground Feeder Cable Stripper	**45-235**
Replacement Blades	**45-234**

Round Cable Slitting and Ringing Tools

45-128



L-7486

45-129

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

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

*Two Blades/package

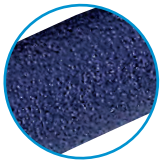
PLIERS

- Custom alloyed, premium quality tool steel provides excellent cutting performance and commercial use durability
- Precision ground knife-to-knife cutting blades for accurate, quick wire cutting
- Hardened and tempered body and cutting edges for optimum performance
- High leverage pivot design provides great cutting and gripping power

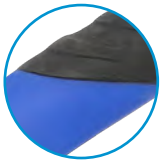
MADE IN USA QUALITY

IDEAL LIFETIME GUARANTEE

Grips



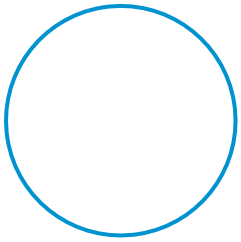
Heavy-Duty Dipped Grip



Smart-Grip™ Dual Durometer Molded Grip

1000V Grip

FastFinder™ letter markers on Smart-Grip™ handles provide quick tool identification.



New Tethering Hole allows for extra security when working from heights.

NEW GRIPS

Linesman

Long Nose

Tongue & Groove

Diagonal