

#### **ELECTRICAL PRODUCTS**



CELEBRATING THE IDEAL CENTURY

**FULL-LINE CATALOG** 

# An American Original.

## AT HOME IN THE HEART OF AMERICA.

Entrepreneurial in spirit, grounded in the values of American ingenuity, IDEAL was founded on the basis that every product we make will exceed the value of the price paid for it. When it comes to creating value, IDEAL is an American original. Today, we exemplify those values in our vision, our mission and the future of our business. We are investing in the success and revitalization of American innovation and we are committed to manufacturing American Value In Every Tool We Make.

## IDEAL IS WITH YOU EVERY STEP OF THE WAY.

We believe in innovative ideas for hardworking professionals — skilled tradesmen like electricians, contractors, mechanics, data communications pros and systems builders. These unsung problem solvers demand smart, tough, high-performance products that work right the first time. They also demand the innovations that keep them a step ahead of the challenges that drive the industries in which they work.

We innovate by listening. While most companies tell customers "Here's what we've got," we're constantly asking, "What do you need?"



**Wire Connectors** 

IDEAL is the leader in wire connectors. For wire termination, IDEAL is the industry standard.



Wire Pulling Lubricants

The environmentally safe lubes from IDEAL provide exceptional lubricity for rapid pulls.



Fish Tapes

IDEAL manufactures a variety of fish tapes for all applications, and our durable impact-resistant cases are the best in the market.



**Conduit Benders** 

IDEAL benders are constructed of exceptionally durable materials and reinforced at stress points for long life.



Wire Strippers

Ergonomically designed in a variety of models for every application, IDEAL manufactures the finest wire strippers on the market.



# Celebrating 100 years of Success with YOU!

We at IDEAL would like to thank all of our channel partners and customers for helping us to achieve this milestone! Since the beginning, this family-run enterprise has been committed to building ideal relationships with its customers, employees and communities.



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# Wire Termination

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## **Ingenuity & Performance**

From the introduction of our first twist-on wire connector in 1928, IDEAL has been the leading force in wire termination technology. Through ingenuity, proven performance and innovative engineering, IDEAL continues to lead the electrical industry with products that deliver more than the price paid.

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

#### Wire-Nut® Wire Connectors

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

#### Wing-Nut® Wire Connectors

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**

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.

#### **B-CAP®** Wire Connectors

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**

The All-in-One connector that gets the job done. The B-Twist<sup>™</sup> 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<sup>™</sup> provides top performance at a great value.

#### WeatherProof™ / UnderGround™ Wire Connectors

Twist-on connectors for underground and wet location installations. Six models cover a wide range of wire sizes from 22 through 6 AWG. The WeatherProof™ and UnderGround™ 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

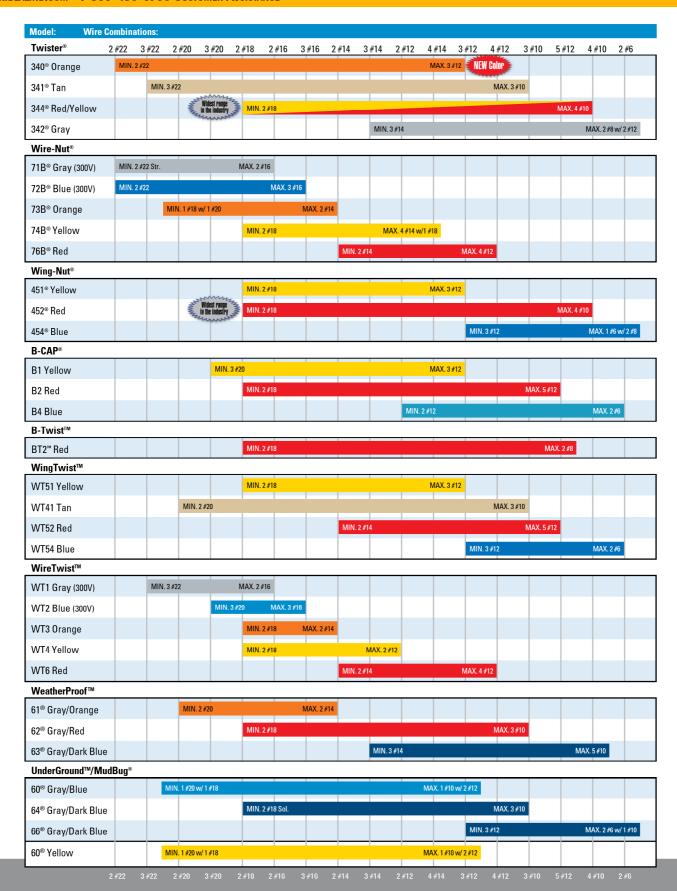
The only twist-on connector for aluminum-to-copper connections. The specially formulated anti-oxidant compound prevents oxidation on aluminum conductors for improved conductivity and cooler connections. UL Listed and CSA Certified for aluminum-to-copper connections.

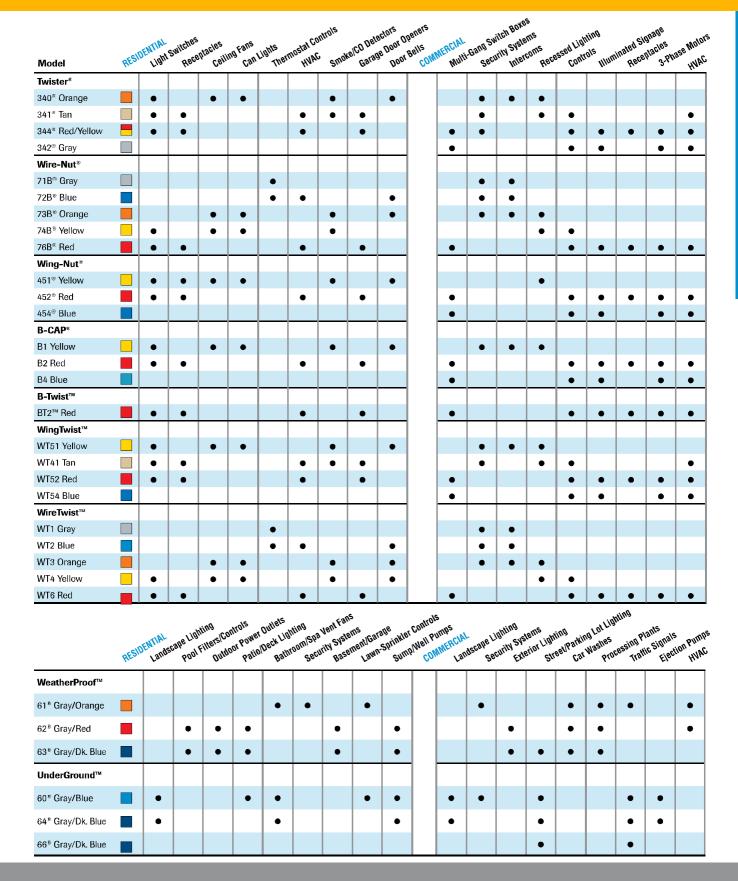




# Wire Termination

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#### Wire-Nut® Wire Connectors





- · 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



				LIGILD		
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.	
71B®	Gray	300V Gray 22 to 16 AWG	300V ,34mm² to 1,5mm²	Box of 100	30-071	
for U	iable Glay ise in indling	Min. 2 #22 – Max. 2 #16	Min. 2-,34mm <sup>2</sup> Max. 3-1,5mm <sup>2</sup>	Keg of 25,000	30-271	
	aces	300V	300V	Box of 100	30-072	
72B®	Blue	22 to 14 AWG	,34mm² to 2,5mm²	Keg of 10,000	30-272	
		Min. 2 #22 – Max. 3 #16	Min. 2-,34mm <sup>2</sup> Max. 3-1,5mm <sup>2</sup>	Barrel of 85,000	30-872	
	Orange	600V* 22 to 14 AWG Min. 1 #18 & 1 #20 Max. 2 #14	600V*	Box of 100	30-073	
			,34mm² to 2,5mm² Min. 1-,75mm² w/1-,50mm² Max. 4-1,5mm² w/1-,50mm²	Jar of 300	30-073J	
73B®				Bag of 500	30-273	
				Keg of 10,000	30-673	
				Barrel of 50,000	30-873	
	Yellow	Vollou	600V*	600V*	Box of 100	30-074
74B®			18 to 12 AWG	,75mm² to 4,0mm²	Jar of 175	30-074J
746		Min. 2 #18	Min. 2-,75mm²	Bag of 500	30-274	
		Max. 4 #14 & 1 #18	Max. 4-2,5mm <sup>2</sup> w/1-,75mm <sup>2</sup>	Keg of 5,000	30-674	
		600V*	600V* ,75mm² to 16,0mm² Min. 2-2,5mm² Max. 2-4,0mm²	Box of 100	30-076	
76B®	Red	18 to 6 AWG Min. 2 #14 Max. 4 #12		Jar of 150	30-076J	
				Bag of 250	30-276	

<sup>\*1,000</sup>V maximum in fixtures and signs

## High-Temp Wire-Nut® Wire Connectors



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

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



	Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
71B®	CHICAGO	Black	300V 22 to 16 AWG	300V	Box of 100	30-3627
/ ID°	Suitable for use in Air Handling		Min. 2 #22 Str – Max. 2 #16	,34mm² to 1,5mm² Min. 2-,34mm² — Max. 2-1,5mm²	Keg of 25,000	30-251
72B®	Spaces	Black	300V 22 to 14 AWG	300V ,34mm² to 2,5mm²	Box of 100	30-3628
12D°			Min. 2 #22 – Max. 3 #16 Min. 2-,34mm² – Max. 3-1,5mm²	Keg of 10,000	30-252	
	Black		600V* 22 to 14 AWG Min. 1 #18 w/1 #20	600V* ,34mm² to 2,5mm² Min. 1-,75mm² w/1-,50mm²	Box of 100	30-3629
73B®		Black			Keg of 10,000	30-253
		Max. 2 #14	Max. 4-1,5mm² w/1-,50mm²	Barrel of 50,000	30-803	
59 <b>B</b> ™		600V*	600V*	Box of 100	30-059	
อลอ		Black	22 to 12 AWG Min. 2 #20 – Max. 3 #14	,	Keg of 5,000	30-259

<sup>\*1,000</sup>V maximum in fixtures and signs

## Wing-Nut® Wire Connectors

- Contoured wing profile provides extra leverage for superior torque
- Expanding, live-action spring expands to accommodate a wide range of wire sizes and combinations
- Co-polymer 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)





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				LISTED	
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
				Box of 100	30-451
		600V*	600V*	Jar of 225	30-451J
451®	Yellow	18 to 10 AWG	,75mm² to 6,0mm²	Jar of 500	30-651J
		Min. 2 #18 – Max. 3 #12	Min. 2-,75mm² – Max. 3-4,0mm²	Bag of 500	30-651
				Barrel of 35,000	30-851
		Red  600V*  18 to 8 AWG  Min. 2 #18 – Max. 4 #10  (Widest range in the Industry!)	1)7	Box of 100	30-452
	Red		600V* ,75mm² to 10,0mm² Min. 2-,75mm² – Max. 4-6,0mm²	Jar of 300	30-452J
452®				Jar of 500	30-652J
				Bag of 500	30-652
	(widoot range in the materity.)		Barrel of 25,000	30-852	
454®	600V* Blue 14 to 6 AWG Min. 3 #12 — Max. 1 #6 w/2 #8		600V* 2,5mm² to 16,0mm²	Box of 25	30-454
		15.5	Min. 3-4,0mm² – Max. 2-16,0mm² w/1-4,0mm²	Bag of 100	30-654

<sup>\*1,000</sup>V maximum in fixtures and signs

Model

92®

## **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



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-19 for more IDEAL Grounding Products.



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## Twister® Wire Connectors













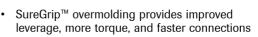
- Swept wings for more comfort, extra leverage, and less effort on large combinations
- Expanding, live-action spring supports a wide range of common wiring configurations
- Polypropylene shell expands for smooth, progressive tightening providing dependable connections
- Hexagonal shape accommodates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

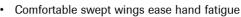
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
340™	Orongo	600V* 22 to 10 AWG	600V*	Box of 100	30-340
340***	Orange	Min. 2 #22 – Max. 3 #12	,34mm² to 4,0mm² 12 Min. 2-,34mm² – Max. 3-4,0mm²	Jar of 500	30-640J
		600V* 600V*  Tan 22 to 8 AWG ,34mm² to 10,0mm²  Min. 3 #22 – Max. 3 #10 Min. 3-,34mm² – Max. 3-6,0mm²	Box of 100	30-341	
			,34mm₂ to 10,0mm²	Jar of 400	30-441J
341®	Tan			Bag of 500	30-641
	Mir			Jar of 750	30-341J
				Barrel of 25,000	30-841
		600V*		Box of 50	30-342
342®	Gray	18 to 6 AWG	,75mm² to 10,0mm²	Bag of 250	30-642
	, i	Min. 3 #14 – Max. 2 #8 w/2 #12	Min. 3-2,5mm <sup>2</sup> – Max. 2-10,0mm <sup>2</sup> w/2-4,0mm <sup>2</sup>	Barrel of 15,000	30-842

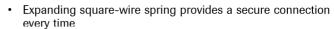
<sup>\*1,000</sup>V maximum in fixtures and signs

## Twister® Pro Wire Connectors









Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
	Red/Yellow	600V*	Box of 50	30-144	
344®		,34mm² to 10,0mm² Min. 2-,75mm²	Jar of 250	30-244J	
344			Jar of 500	30-644J	
		(Widest range in the Industry!)	Max. 4,0-6,0mm <sup>2</sup>	Barrel of 20,000	30-944

<sup>\*1,000</sup>V maximum in fixtures and signs



## $\textbf{WeatherProof}^{\scriptscriptstyle \mathsf{TM}}$ **Wire Connectors**



- 100% Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486D for use in damp/wet locations or abovegrade 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 flameretardant shell rated at 105°C (221°F)

WeatherProof™ Wire Connectors

Color

Gray/Orange

Gray/Red

Gray/Dk. Blue

Model

61®

62<sup>®</sup>

63®

Combination Backage



**Wire Combination Range** 600V\*

22 to 14 AWG Min. 2 #20 - Max. 2 #14 600V\*

18 to 8 AWG Min. 2 #16 - Max. 2 #10 600V\*

16 to 6 AWG

Min. 3 #14 - Max. 5 #10







## UnderGround **Wire Connectors**



Combo Packs

- 100% Silicone-based sealant protects against moisture and corrosion
- UL Listed to 486D for use in damp/wet locations or direct burial/below-grade applications
- Easy to apply, pre-filled twist-on wire connectors
- Expanding, live-action square-wire spring for fast, secure and long-lasting connections
- Deep skirt provides superior moisture resistance to protect connections





30-1363



Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)

Min. 3-2,5mm<sup>2</sup> - Max. 5-6,0mm<sup>2</sup>

	Wire Combination Range (mm)	Quantity	Part No.
	600V*	Card of 25	30-1161
	,34mm <sup>2</sup> to 4,0mm <sup>2</sup>	Jar of 150	30-1261J
	Min. 2-,5mm² – Max. 2-2,5mm²	Carton of 1,000	30-1361
	600V*	Card of 20	30-1162
,75mm² to 10,0mm²		Jar of 100	30-1262J
	Min. 2-1,5mm <sup>2</sup> — Max. 2-6,0mm <sup>2</sup>	Carton of 1,000	30-1362
	600V*	Card of 15	30-1163
	1,5mm <sup>2</sup> to 16,0mm <sup>2</sup>	Jar of 50	30-1263J

UnderGround	™ Wire Connectors				
Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
		600V* 20 to 10 AWG	600V* .5mm² to 6.0mm²	Card of 25	30-1160
60®	Gray/Gray	Min. 1 #20 w/1 #18 Max. 1 #10 w/2 #12	Min. 1-,5mm² w/1,75mm² Max. 1-6,0mm² w/2-4,0mm²	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. 2-16,0mm²w/1-6,0mm²	Box of 50	30-1066

Combination I doka	900		
Model Color		Quantity	Part No.
61®/62®	Gray/Orange • Gray/Red WeatherProof™ Wire Connectors	Card of 10 (5 ea.)	30-6162
60®/64®	Gray/Blue ● Gray/Dk. Blue UnderGround™ Wire Connectors	Card of 10 (5 ea.)	30-6064

<sup>\*1,000</sup>V maximum in fixtures and signs WARNING: One time use only. Do not reuse connector.

Carton of 1,000



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## MudBug® Utility Wire Connectors





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

Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Part No.
60®	Yellow	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	Box of 1,000	30-360Y

<sup>\*1,000</sup>V maximum in fixtures and signs



#### Twister® Al/Cu Wire Connectors



#### WARNING:

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

- 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 nutdriver
- · Live-action, square-wire spring expands and contracts with aluminum wire
- Entry-cap retains corrosion-resistant compound
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Complies with N.E.C. Section #110-14(b) for aluminum-to-copper connections; UL Listed to 486C and CSA Certified to C22.2 #188

Model	Color	Wire Combination Ranges		Quantity	Part No.
65	Purple	1 #10 Al solid w/1 or 2 #10 Cu solid 1 #10 Al w/1 or 2 #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
		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		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



Wire Connector also listed as grounding equipment







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