

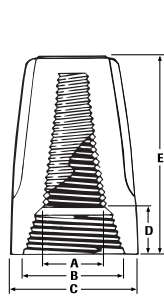
**A**

**Wire Termination**



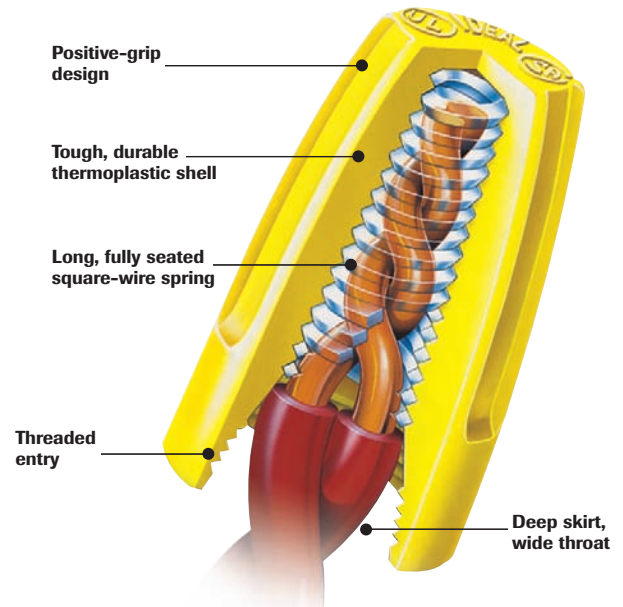
## Wire-Nut® Wire Connectors

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



Dimensions (Inches/mm)

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



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

\*1,000V maximum in fixtures and signs

## High Temperature Wire-Nut® Wire Connectors

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

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

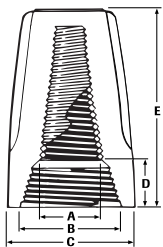


Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
71B®	Black	300V 22 to 16 AWG Min. 2 #22 Str Max. 2 #16	300V ,34mm² to 1,5mm² Min. 2-,34mm² Max. 2-1,5mm²	Carton of 1,000	<b>30-151</b>
				Keg of 25,000 (loose pack)	<b>30-251</b>
72B®	Black	300V 22 to 14 AWG Min. 2 #22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

\*1,000V maximum in fixtures and signs



### Dimensions (Inches mm)

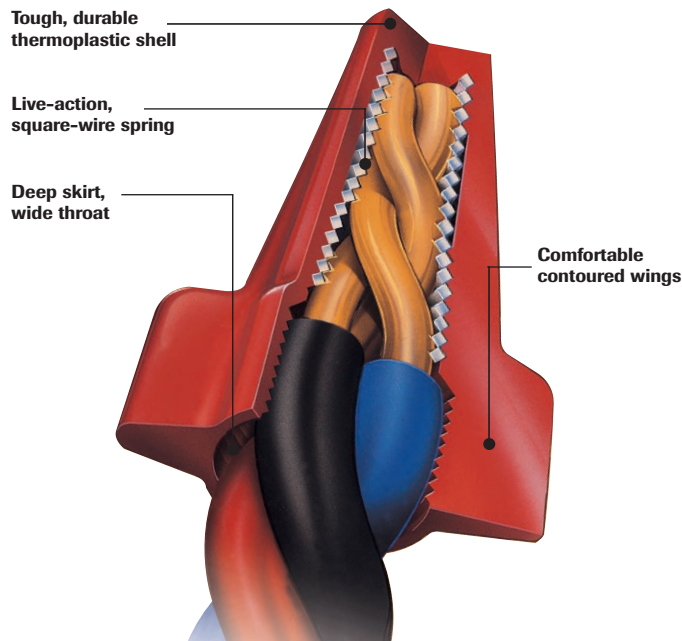


Model	A	B	C	D	E
71B® Black	5/32 4	1/4 6.5	21/64 8	13/64 5	37/64 15
72B® Black	13/64 5	5/16 8	25/64 10	15/64 6	45/64 18
73B® Black	13/64 5	23/64 9	7/16 11	3/8 9.5	55/64 22
59B™ Black	13/64 5	13/32 10	31/64 12	37/64 14.5	1-1/16 27

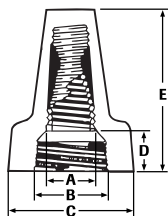


## Wing-Nut® Wire Connectors

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



### Dimensions (Inches/mm)



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

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

\*1,000V maximum in fixtures and signs



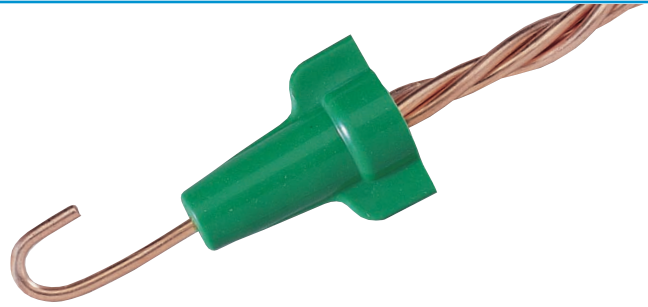
Model	Min	Max
451 Yellow	2 #18	3 #12
452 Red	2 #18	4 #10
454 Blue	3 #12	1 #6 & 2 #8

Wire Combinations: 2 #18, 2 #14, 3 #12, 5 #12, 4 #10, 5 #10



## Greenie® Grounding Connector

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



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



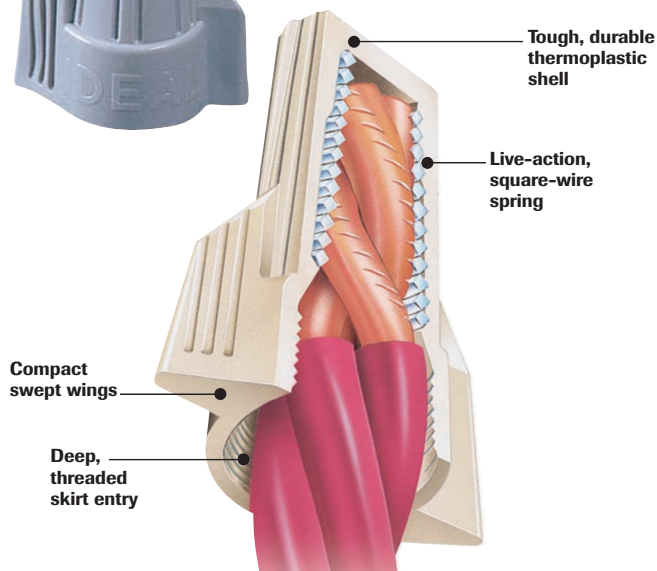
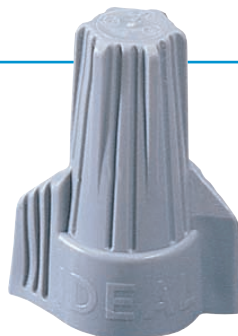
**Greenie® Grounding Connector fully meets the intent of the N.E.C. and specifically aids in compliance with the following:**

### ARTICLE 250: GROUNDING

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

## Twister® Wire Connectors

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

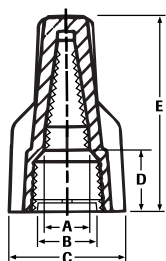


Model	Color	Wire Combination Range	Wire Combination Range (mm)	Quantity	Cat. No.
340°	Lt. Blue	600V* 22 thru 10 AWG Min. 2 #22 Max. 3 #12	600V* ,34mm <sup>2</sup> to 4,0mm <sup>2</sup> Min. 2-,34mm <sup>2</sup> Max. 3-4,0mm <sup>2</sup>	Box of 100	<b>30-340</b>
				Bag of 500	<b>30-640</b>
				Jar of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

\*1,000V maximum in fixtures and signs



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



### Dimensions (Inches/mm)

Model	A	B	C	D	E
340° Lt. Blue	5/16 7.8	3/8 9.5	39/64 15.2	27/64 10.6	63/64 24.9
341° Tan	17/64 7	29/64 11.5	23/32 18	23/64 9	1-1/8 28.5
342° Gray	3/8 9.5	9/16 20	1.0 25.5	13/32 10.5	1-19/64 33

## Twister<sup>®</sup> Wire Connector PRO


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



Molded vertical grooves provide maximum grip

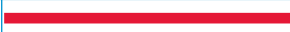
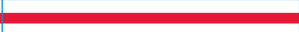
Patented swept-wing SureGrip™ design

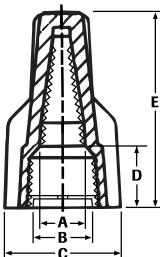
Exceptional wire range and capacity  
- Min. 2 #18  
- Max. 4 #10

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

\*1,000V maximum in fixtures and signs



Combination	Min. 2 #18	4 #14	5 #12	Max. 4 #10
344 <sup>®</sup>				



### Dimensions (Inches mm)

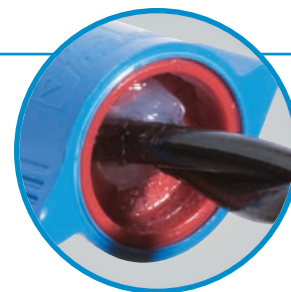
Model	A	B	C	D	E
344	11/32	1/2	15/16	7/16	1-1/4
Red/Gray	8.8	12.7	23.5	10.7	31.8



## WeatherProof™ and UnderGround™ Wire Connectors

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

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



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



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



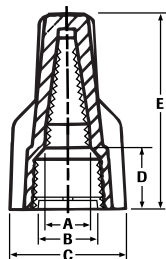
### WeatherProof™ Wire Connectors

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

### UnderGround™ Wire Connectors

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

\*1,000V maximum in fixtures and signs



### Dimensions (Inches/mm)

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

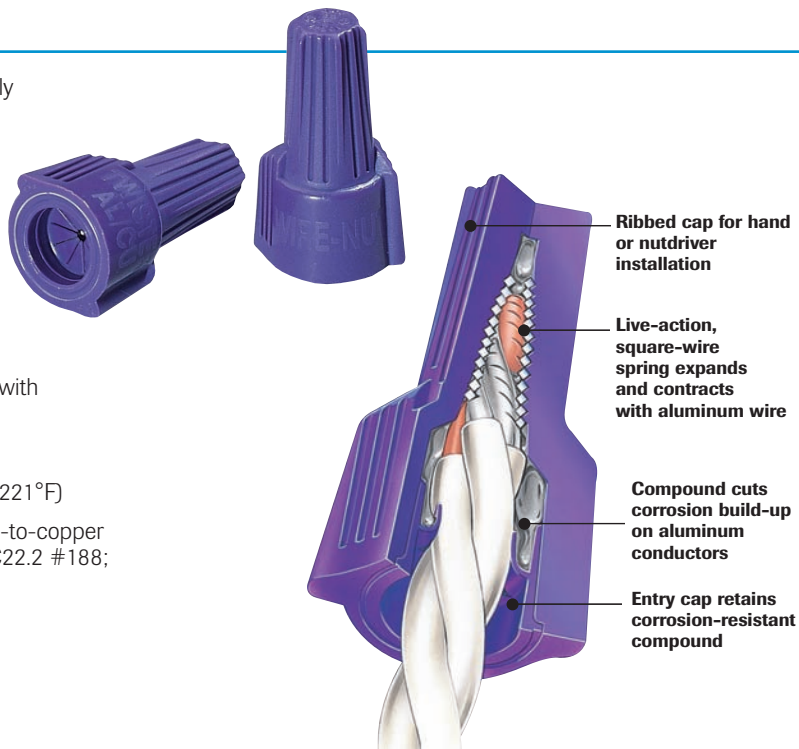


#### WARNING:

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

## Twister® Al/Cu Wire Connector

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

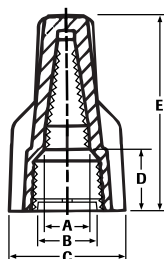


Model	Color	Wire Combinations	Quantity	Cat. No.
65	Purple	1 #10 Al solid w/1 or 2 #10 Cu solid 1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu 1 #10 Al w/1 or 2 #14 Cu 2 #10 Al solid w/1 #14 Cu 2 #12 Al solid w/1 #10 Cu 1 #12 Al solid w/1 or 2 #10 Cu 1 #12 Al stranded w/1 or 2 #10 Cu solid	Card of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

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



Wire Connector also listed as grounding equipment



### Dimensions (Inches/mm)

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

### WARNING:

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.
4. Contact IDEAL for complete wire combination listing.

## Wire-Nut® Wire Connector Sockets

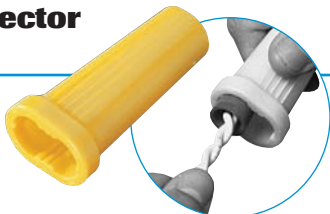
- Speeds installation of Wire-Nut® Wire Connectors
- Fit any pneumatic or electric tool with a 1/4 in. chuck or drive socket



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

## Wire-Nut® Wire Connector Wrench

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



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

## Spin-Twist® Wire Connector Socket

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



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

## 7-in-1 Twist-a-Nut™ Screwdriver

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



Description	Cat. No.
7-in-1 Twist-a-Nut™	<b>35-908</b>

## 9-in-1 Ratch-a-Nut™ Screwdriver

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



Description	Cat. No.
9-in-1 Ratch-a-Nut™ Screwdriver	<b>35-988</b>

## Ratch Wrench

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



For Connector Model	Cat. No.
B1, B2 & B4	<b>BR-5</b>

## High-Speed Wire Connector Chuck

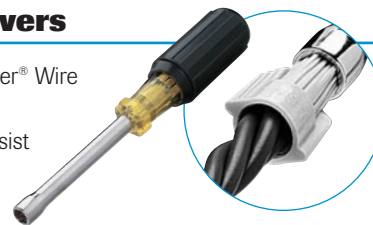
- Cordless screwdriver adapter for installing B-CAP® Wire Connectors



For Connector Model	Cat. No.
B1, B2 & B4	<b>HSC-1</b>

## Nutmaster® Nutdrivers

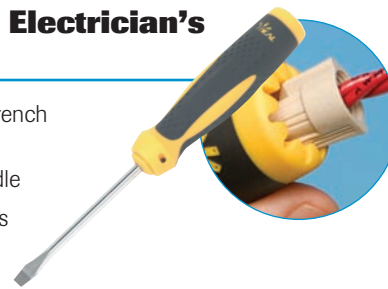
- Speeds installation of Twister® Wire Connectors
- Nickel/chrome plated to resist rust and corrosion
- Cushioned rubber grip



For Connector Model	Cat. No.
341®, 5/16 in. Driver	<b>35-292</b>
342®, 7/16 in. Driver	<b>35-295</b>

## Twist-a-Nut™ Pro Electrician's Screwdrivers

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



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

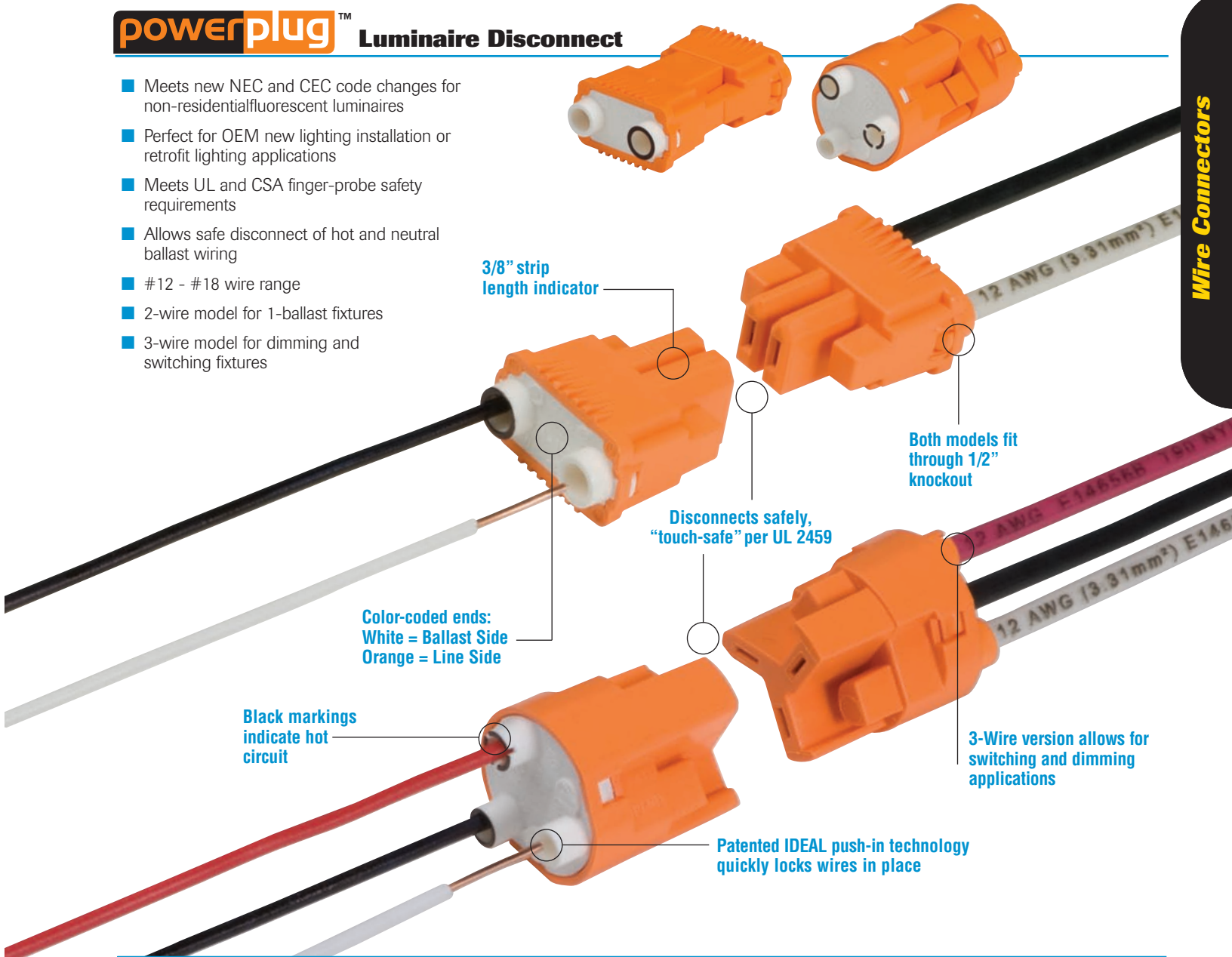


# Wire Termination

## powerplug™ Luminaire Disconnect

- Meets new NEC and CEC code changes for non-residential fluorescent luminaires
- Perfect for OEM new lighting installation or retrofit lighting applications
- Meets UL and CSA finger-probe safety requirements
- Allows safe disconnect of hot and neutral ballast wiring
- #12 - #18 wire range
- 2-wire model for 1-ballast fixtures
- 3-wire model for dimming and switching fixtures

Wire Connectors



3/8" strip length indicator

Both models fit through 1/2" knockout

Disconnects safely, "touch-safe" per UL 2459

Color-coded ends:  
White = Ballast Side  
Orange = Line Side

Black markings indicate hot circuit

3-Wire version allows for switching and dimming applications

Patented IDEAL push-in technology quickly locks wires in place

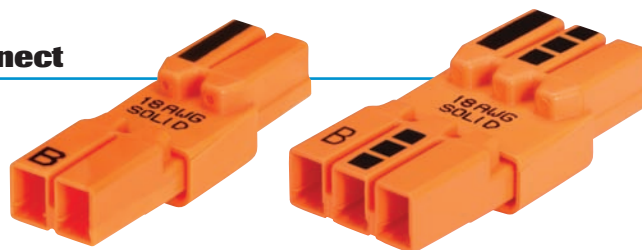
Model	Color	Electrical Rating	Wire Range	Line Side	Ballast Side	Quantity	Cat. No.
102 2-Wire	Orange	6 Amps/600 Volts Max.	Solid	#12 - #18		Card of 25	<b>30-372</b>
			Stranded	#12 - #14 (≤19 str.)		Jar of 75	<b>30-382J</b>
			Stranded Tin-Bonded	#12 - #14 (≤19 str.)		Jar of 150	<b>30-352J</b>
				#16 (≤26 str.) #18 (≤16 str.)		Box of 1,000	<b>30-102</b>
103 3-Wire	Orange	6 Amps/600 Volts Max.	Solid	#12 - #18	#18	Card of 20	<b>30-383</b>
			Stranded	#12 - #14 (≤19 str.)	None	Jar of 50	<b>30-383J</b>
			Stranded Tin-Bonded	#12 - #14 (≤19 str.)	#18 (≤16 str.)	Jar of 100	<b>30-353J</b>
				#16 (≤26 str.) #18 (≤16 str.)		Box of 1,000	<b>30-103</b>

\*1,000V maximum in fixtures and signs



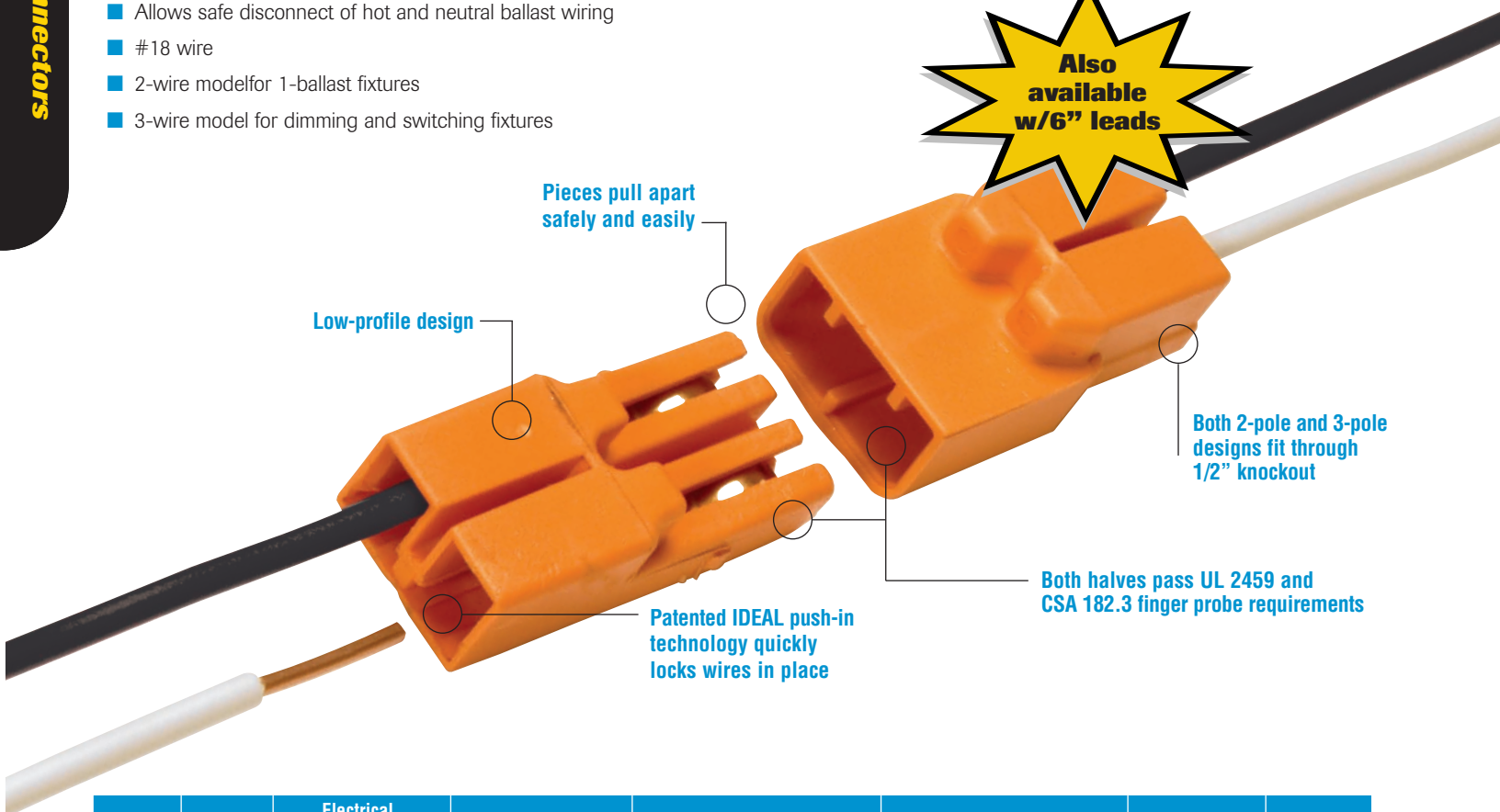
## powerplug™ Luminaire Disconnect

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



**Also available w/6" leads**

Wire Connectors



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

\*1,000V maximum in fixtures and signs



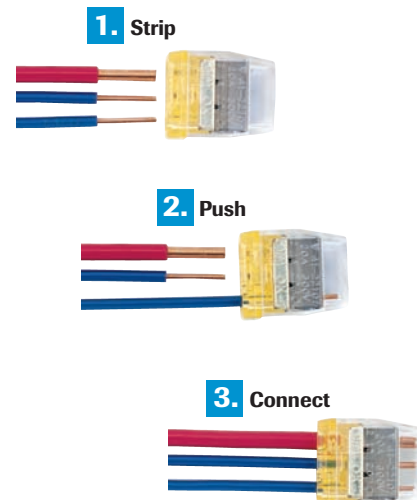
## In-Sure™ Push-In Wire Connectors

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



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

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



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





## Term-a-Nut® Pigtail Wire Connectors

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



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

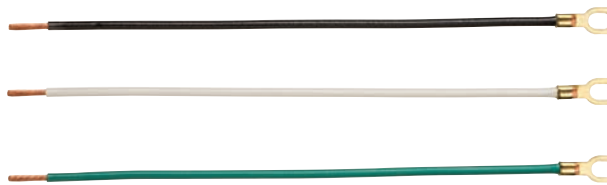
\*Includes 3 red shells w/white wire, 3 red shells w/black wire, and 3 green shells w/green wire.



**Cu/Cu Only**

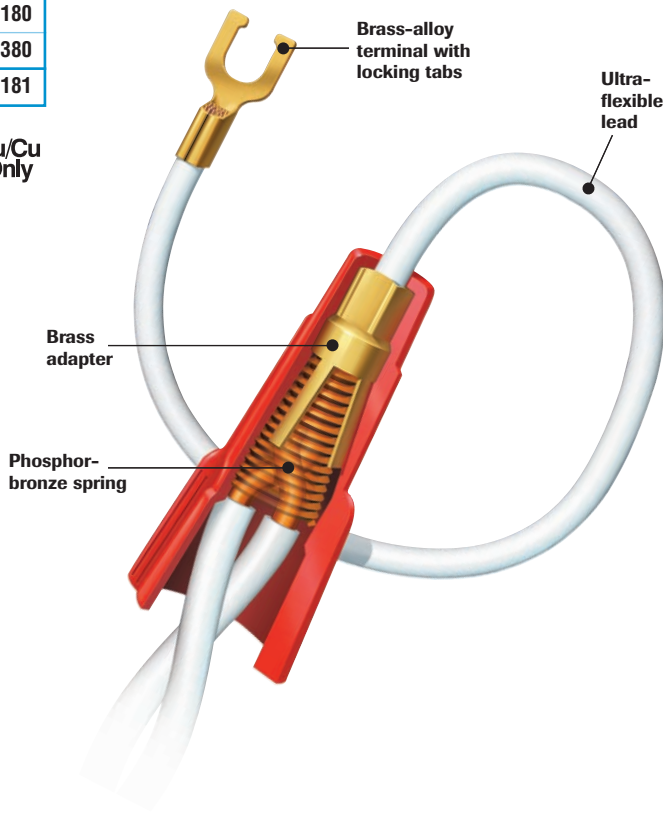
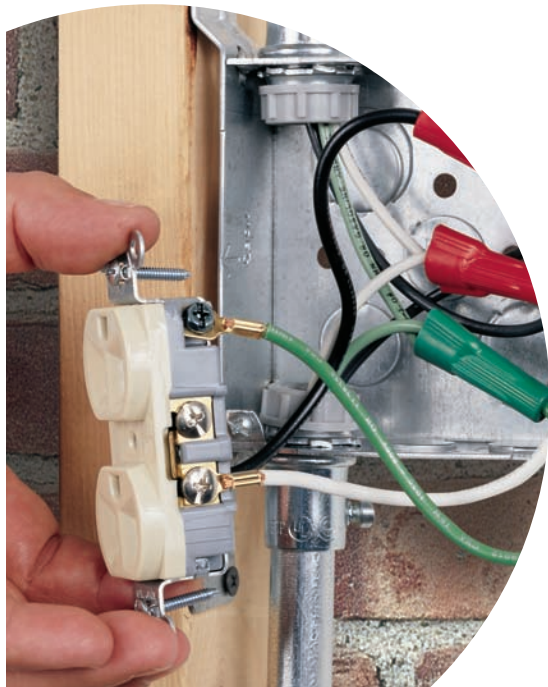
## Pigtail Wire Connectors

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



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

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



## Grounding Connectors

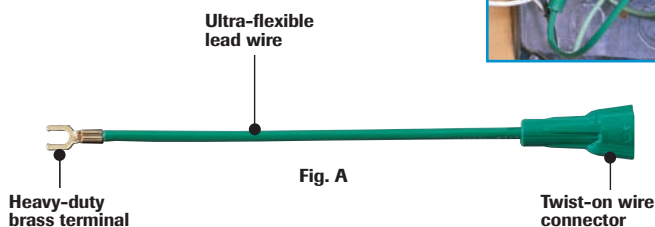
- Term-a-Nut® grounding connectors address specific requirements for grounding to steel outlet boxes and wiring multiple devices
- UL Listed to UL486C and UL467 (grounding and bonding)



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

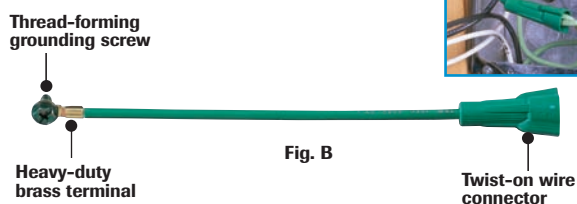
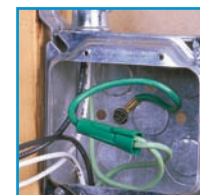
### Term-a-Nut® Grounding Connector

Connects multiple grounding conductors to a device.



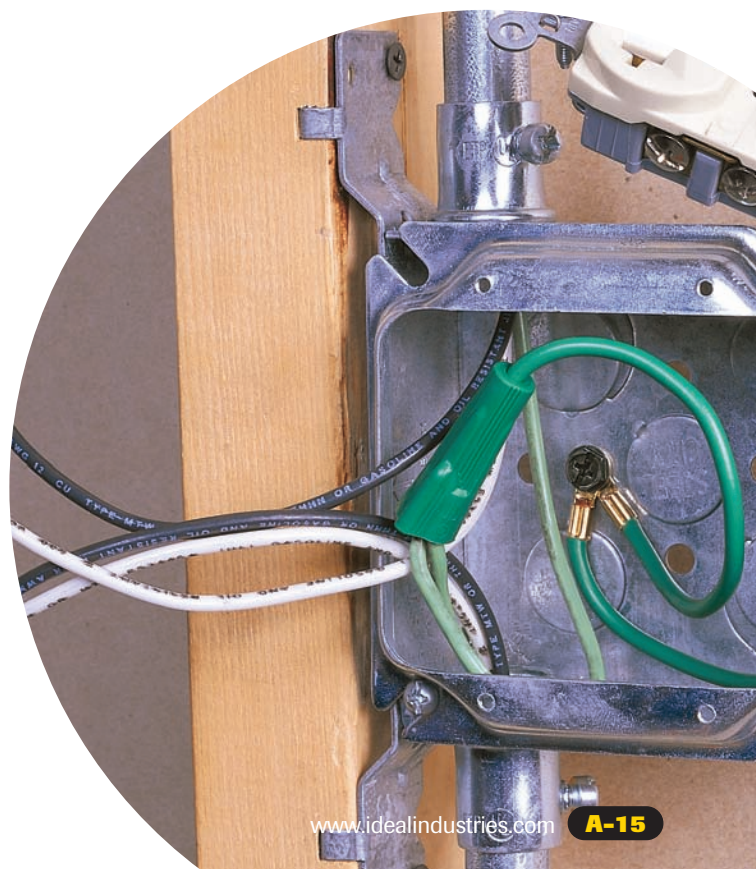
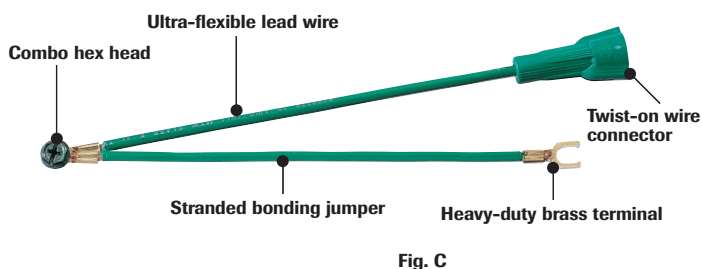
### Term-a-Nut® Grounding Connector

Bonds the box to the grounding conductors.



### Term-a-Nut® Grounding Connector

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



## Grounding Accessories

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

### Grounding Tails - Stranded Wire

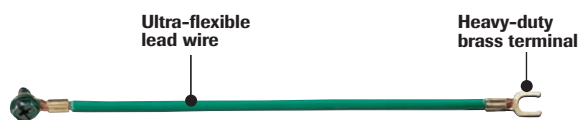


Fig. A - #14 AWG  
Fig. B - #12 AWG



Fig. C



Fig. D



Fig. E

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

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

### Grounding Tails - Solid Wire



Fig. A



Fig. A - 6-1/2 in. length

Fig. B - 7 in. length

Fig. C - 8 in. length

Fig. D - 10 in. length



Fig. E

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

### Grounding Accessories

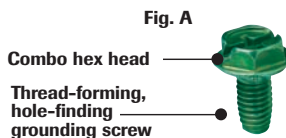


Fig. A  
Combo hex head  
Thread-forming,  
hole-finding  
grounding screw



Fig. B

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



## Term-a-Nut® Terminal Wire Connectors

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



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

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



Wire Connectors

## Crimp Terminals-Rings, Forks, Disconnects and Splices

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

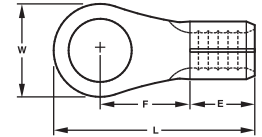
### Vinyl Insulated Ring Terminals



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Stud Size (Inches)	Stud Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	W	E	F	L	W	E	F				
22 – 18	0.5 – 1.0	6	3.7	.157	4.0	.764	.260	.394	.248	19.4	6.6	10.0	6.3	25	<b>83-2121</b>	—	—
		8	4.3			.819	.315	.394	.276	20.8	8.0	10.0	7.0	25	<b>83-2131</b>	—	—
		10	5.3			.819	.315	.394	.276	20.8	8.0	10.0	7.0	25	<b>83-2141</b>	—	—
		1/4	6.4			1.055	.457	.394	.433	26.8	11.6	10.0	11.0	25	<b>83-2151</b>	—	—
16 – 14	1.5 – 2.5	6	3.7	.177	4.5	.764	.260	.394	.248	19.4	6.6	10.0	6.3	25	<b>83-2221</b>	—	—
		8	4.3			.858	.335	.394	.307	21.8	8.5	10.0	7.8	25	<b>83-2231</b>	—	—
		10	5.3			.858	.374	.394	.287	21.8	9.5	10.0	7.3	25	<b>83-2241</b>	1,000	<b>84-2241</b>
		1/4	6.4			1.055	.472	.394	.433	26.8	12.0	10.0	11.0	25	<b>83-2251</b>	—	—
12 – 10	4.0 – 6.0	8	4.3	.248	6.3	1.047	.374	.512	.358	26.6	9.5	13.0	9.1	25	<b>83-2331</b>	—	—
		10	5.3			1.047	.374	.512	.358	26.6	9.5	13.0	9.1	25	<b>83-2341</b>	1,000	<b>84-2341</b>
		1/4	6.4			1.167	.472	.512	.413	29.5	12.0	13.0	10.5	25	<b>83-2351</b>	—	—
		5/16	8.4			1.339	.591	.512	.531	34.0	15.0	13.0	13.5	25	<b>83-2361</b>	—	—
		3/8	10.5			1.339	.591	.512	.531	34.0	15.0	13.0	13.5	25	<b>83-2371</b>	—	—

75° C/600 Volts max.





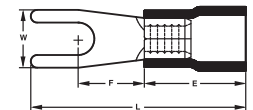
## Non-Insulated Ring Terminals

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

105°C/600 Volts max.  
 \*Plus or minus .020 in.  
 \*\*Plus or minus .50 in.



## Vinyl Insulated Spade Terminals



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Stud Size (Inches)	Stud Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	W	E	F	L	W	E	F				
22 - 18	0.5 - 1.0	6	3.7	.157	4.0	.827	.252	.394	.256	21.0	6.4	10.0	6.5	25	83-7111	1,000	84-7111
		8	4.3			.827	.283	.394	.256	21.0	7.2	10.0	6.5	25	83-7121	—	—
		10	5.3			.827	.374	.394	.256	21.0	9.5	10.0	6.5	25	83-7131	—	—
16 - 14	1.5 - 2.5	6	3.7	.177	4.5	.827	.236	.394	.256	21.0	6.0	10.0	6.5	25	83-7151	—	—
		8	4.3			.827	.283	.394	.256	21.0	7.2	10.0	6.5	25	83-7161	1,000	84-7161
		10	5.3			.827	.366	.394	.256	21.0	9.3	10.0	6.5	25	83-7171	1,000	84-7171
12 - 10	4.0 - 6.0	6	3.7	.248	6.3	1.004	.327	.512	.276	25.5	8.3	13.0	7.0	25	83-7201	—	—
		8	4.3			1.004	.283	.512	.357	25.5	9.0	13.0	7.0	25	83-7211	—	—
		10	5.3			1.004	.283	.512	.354	25.5	9.0	13.0	7.0	25	83-7221	500	84-7221
		1/4	6.4			1.240	.472	.512	.472	31.5	12.0	13.0	12.0	25	83-7231	—	—

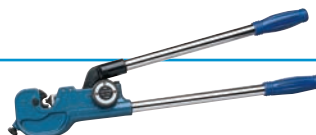
75° C/600 Volts max.



## Crimp Tools



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



#83-005



#88-843

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

## Vinyl Insulated Snap Spade Terminals

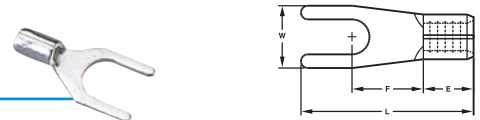


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Stud Size (Inches)	Stud Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
						L	W	E	F	L	W	E	F		
22 - 18	0.5 - 1.0	6	3.7	.134	4.0	.827	.252	.394	.256	21.0	6.4	10.0	6.5	25	83-7011 83-7021 83-7031
		8	4.3			.827	.283	.394	.256	21.0	7.2	10.0	6.5	25	
		10	5.3			.827	.319	.394	.256	21.0	8.1	10.0	6.5	25	
16 - 14	1.5 - 2.5	6	3.7	.161	4.5	.827	.236	.394	.256	21.0	6.0	10.0	6.5	25	83-7051 83-7061 83-7071
		8	4.3			.827	.319	.394	.256	21.0	8.1	10.0	6.5	25	
		10	5.3			.827	.319	.394	.256	21.0	8.1	10.0	6.5	25	
12 - 10	4.0 - 6.0	8	4.3	.248	6.3	.992	.327	.512	.276	25.2	8.3	13.0	7.0	25	83-7081 83-7091 83-7101
		10	5.3			.992	.354	.512	.276	25.2	9.0	13.0	7.0	25	
		1/4	6.4			1.240	.472	.512	.472	31.5	12.0	13.0	12.0	25	

75° C/600 Volts max.



## Non-Insulated Spade Terminals



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Stud Size (Inches)	Stud Size (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
				L	W	E	F	L	W	E	F				
22 - 18	0.5 - 1.0	6	3.7	.630	.252	.189	.256	16.0	6.4	4.8	6.5	25	83-6111 83-6121 83-6131	—	—
		8	4.3	.630	.283	.189	.256	16.0	7.2	4.8	6.5	25			
		10	5.3	.630	.319	.189	.256	16.0	8.1	4.8	6.5	25			
16 - 14	1.5 - 2.5	8	4.3	.630	.283	.189	.256	16.0	7.2	4.8	6.5	25	83-6161 83-6171	—	—
		10	5.3	.630	.366	.189	.256	16.0	9.3	4.8	6.5	25			
12 - 10	4.0 - 6.0	8	4.3	.728	.354	.236	.276	18.5	9.0	6.0	7.0	25	83-6211 83-6221 83-6231	—	—
		10	5.3	.728	.354	.236	.276	18.5	9.0	6.0	7.0	25			
		1/4	6.4	.965	.472	.236	.472	24.5	12.0	6.0	12.0	25			

105° C/600 Volts max.



## Vinyl Insulated Multi-Stack Disconnects



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)						Dimensions (mm)						Ctn. Qty.	Cat. No.
						L	B	W	F	W1	F1	L	B	W	F	W1	F1		
22 - 18	0.5 - 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.886	.413	.260	.315	.250	.323	22.5	10.5	6.6	8.0	6.35	8.2	25	83-9611
16 - 14	1.5 - 2.5	.250 x .032	6.35 x 0.8	.185	4.7	.886	.413	.260	.315	.250	.323	22.5	10.5	6.6	8.0	6.35	8.2	25	83-9621
12 - 10	4.0 - 6.0	.250 x .032	6.35 x 0.8	.244	6.2	.945	.512	.260	.315	.250	.323	22.5	13.0	6.6	8.0	6.35	8.2	25	83-9631

75° C/300 Volts max.



## Vinyl Insulated Female Disconnects



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

75° C/300 Volts max.



## Vinyl Insulated Male Disconnects

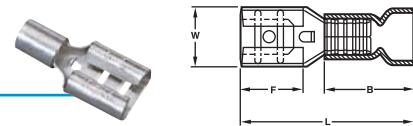


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	F		
22-18	0.5-1.0	.250 x .032	6.35 x 0.8	.150	3.8	.858	.413	.250	.303	21.8	10.5	6.35	7.7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

75° C/300 Volts max.



## Non-Insulated Female Disconnects



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

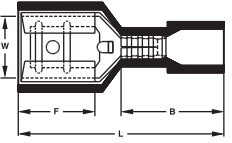
105° C/300 Volts max.



# Wire Termination

Disconnects

## Nylon Fully-Insulated Female Disconnects

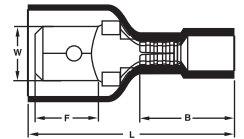


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	L				
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.866	.433	.260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

105° C/300 Volts max.



## Nylon Fully-Insulated Male Disconnects

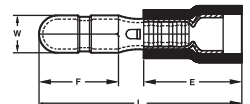


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Tab Size (Inches)	Tab Size (mm)	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
						L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.250 x .032	6.35 x 0.8	.150	3.8	.906	.433	.250	.303	23.0	11.0	6.35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

105° C/300 Volts max.



## Vinyl Insulated Bullet Disconnects

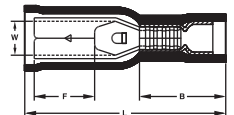
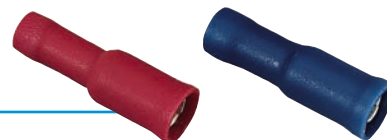


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.150	3.8	.846	.413	.157	.335	21.5	10.5	4.0	8.5	25	83-8001
16 – 14	1.5 – 2.5	.185	4.7	.846	.413	.157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

75° C/300 Volts max.



## Vinyl Fully-Insulated Receptacle Disconnects

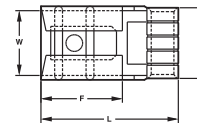
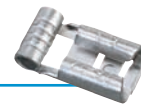


Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)				Dimensions (mm)				Ctn. Qty.	Cat. No.
				L	B	W	F	L	B	W	F		
22 – 18	0.5 – 1.0	.150	3.8	.917	.413	.153	.287	23.3	10.5	3.9	7.3	25	83-8101
16 – 14	1.5 – 2.5	.185	4.7	.917	.413	.153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

75° C/300 Volts max.



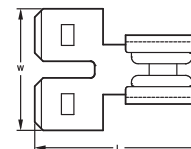
## Non-Insulated Flag Female Disconnect



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

105° C/300 Volts max.

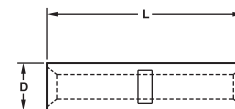
## Disconnect Adapter – Male to Female (2-1)



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

105° C/300 Volts max.

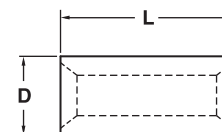
## Non-Insulated Butt Splices



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

105° C/600 Volts max.

## Non-Insulated Parallel Splices



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

105° C/600 Volts max.

## Vinyl Insulated Butt Splices



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (Inches)	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.	Ctn. Qty.	Cat. No.
				L	D	L	D				
22 – 18	0.5 – 1.25	.157	4.0	.986	.067	24.6	1.7	25	<b>83-9281</b>	1,000	<b>84-9281</b>
16 – 14	1.5 – 2.5	.177	4.5	.986	.091	24.6	2.3	25	<b>83-9291</b>	1,000	<b>84-9291</b>
12 – 10	4.0 – 6.0	.248	6.3	1.043	.134	26.5	3.4	25	<b>83-9301</b>	500	<b>84-9301</b>

75° C/600 Volts max.

Listed 774A Cu Only Pressure Wire Connector

## Vinyl Insulated Parallel Splices



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Max. Wire Ins. Dia. (Inches)	Max. Wire Ins. Dia. (mm)	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.
				L	W	L	W		
22 – 18	0.5 – 1.0	.157	4.0	.512	.067	13.0	1.7	25	<b>83-9351</b>
16 – 14	1.5 – 2.5	.177	4.5	.512	.091	13.0	2.3	25	<b>83-9361</b>
12 – 10	4.0 – 6.0	.248	6.3	.591	.134	15.0	3.4	25	<b>83-9371</b>

75° C/600 Volts max.

## Tap Splice Connectors



Wire Range (AWG)	Wire Range (mm <sup>2</sup> )	Color	Dimensions (Inches)		Dimensions (mm)		Ctn. Qty.	Cat. No.
			L	W	L	W		
22 – 18	0.5 – 1.0	Red	1.063	.787	27.0	20.0	25	<b>83-3261</b>
16 – 14	1.5 – 2.5	Blue	1.063	.787	27.0	20.0	25	<b>83-3271</b>
12 – 10	4.0 – 6.0	Yellow	1.358	.807	34.5	20.5	25	<b>83-3281</b>

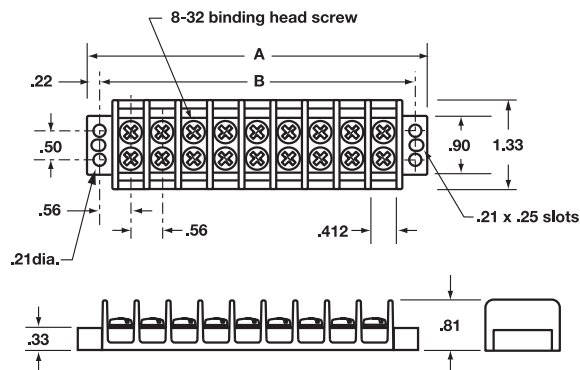
105° C/600 Volts max.

## Terminal Strips

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

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

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



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

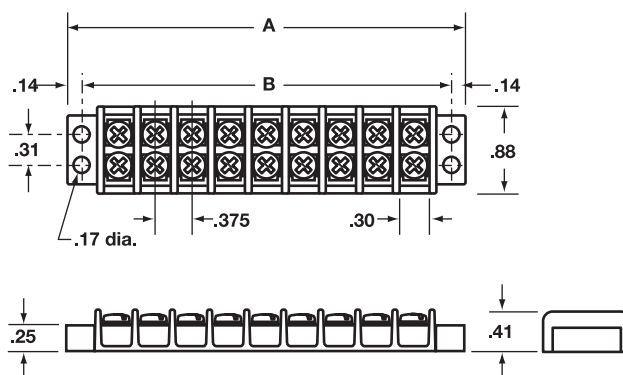
\*Max. electrical rating 30A/250V when used with optional quick-connects.



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

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

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



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

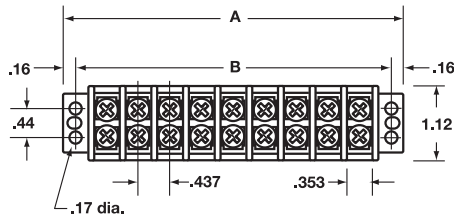
\*\*Max. electrical rating 15A/125V when used with optional quick-connects.





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

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

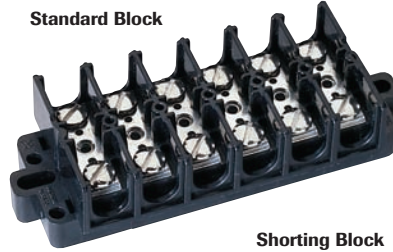


No. of Poles	Dimensions (Inches)		Cat. No.
	A	B	
2	1.63	1.31	<b>89-402</b>
4	2.51	2.18	<b>89-404</b>
6	3.38	3.06	<b>89-406</b>
8	4.25	3.93	<b>89-408</b>
10	5.13	4.81	<b>89-410</b>
12	6.00	5.68	<b>89-412</b>

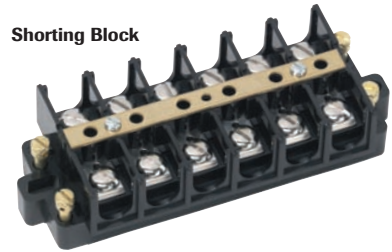


## 89-500 Series Terminal Strips 60A/600V\* UL/CSA

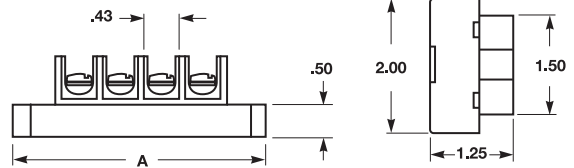
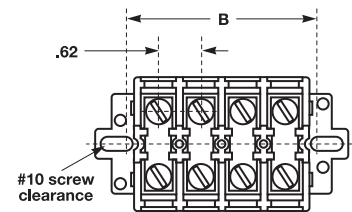
- Available in standard or shorting-block style
- .625 in. (15.88mm) center spacing
- Accepts wire sizes from 22 through 6 AWG Cu
- #10-32 slotted, nickel plated brass terminal screws (Recommended torque: 20 in. - lb.)



Standard Block



Shorting Block



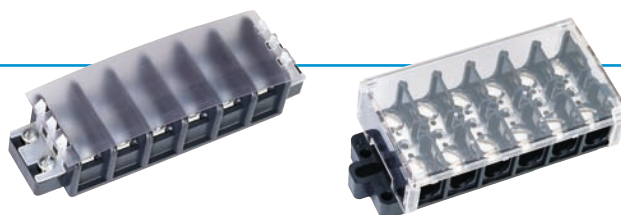
No. of Poles	Dimensions (Inches)		Standard Block Cat. No.	Shorting Block Cat. No.
	A	B		
4	3.75	2.87	<b>89-504</b>	<b>89-505</b>
6	5.00	4.12	<b>89-506</b>	<b>89-507</b>
8	6.25	5.37	<b>89-508</b>	<b>89-509</b>
12	8.75	7.87	<b>89-512</b>	<b>89-513</b>

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



## Covers

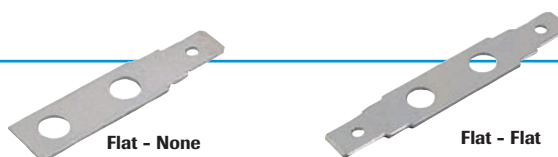
- Helps prevent contact with live terminals



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

## Quick Connects

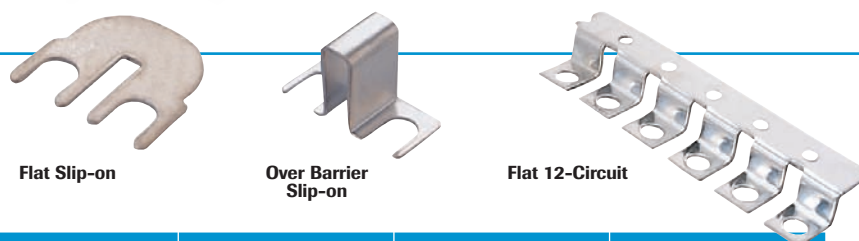
- Allows fast, flexible circuit changes



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

## Jumpers

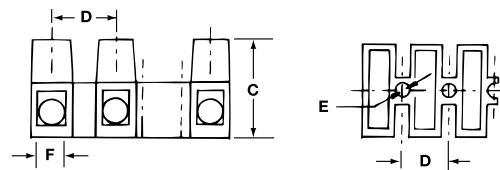
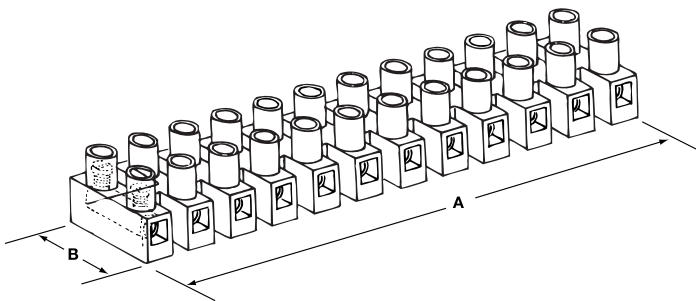
- Provides easy connection of multiple circuits



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

## Barrier Strips

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



## Barrier Strips

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

\*Plus or minus .004 in.

\*\*Plus or minus 0.1mm



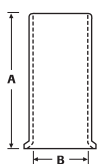
## Crimp Connectors



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

### Steel Crimp Connectors

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



### Dimensions (Inches)

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



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

## Wrap-Cap® Insulators

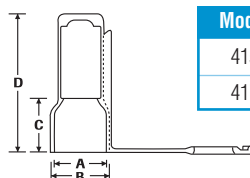


- Provide high dielectric and physical protection for UL Listed, non-insulated pressure-type wire connectors
- Cap and loop design eliminates need for tape
- Unique design completely covers splice — insulates both around and between wires
- Reusable and easy to install
- UL Listed and CSA Certified for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

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

### Dimensions (Inches)

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



## Pre-Insulated Crimp Connectors

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



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

\*1,000V maximum in fixtures and signs



1-800-435-0705 for Customer Service

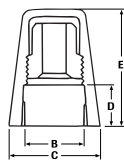


## Set-Screw Wire Connectors



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

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



### Dimensions (Inches)

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

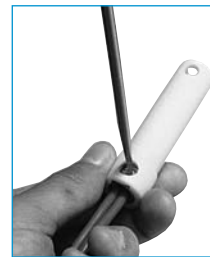


Cu/Cu Only



## Set-Screw Holder

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



For Connector Models

11 & 22

Cat. No.

**K-2422**

## Noalox® Anti-Oxidant



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

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

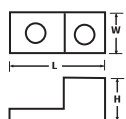
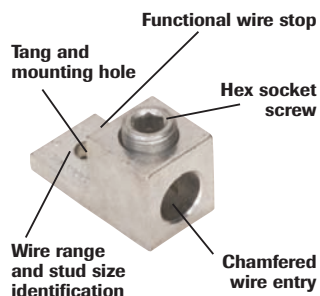
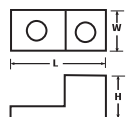
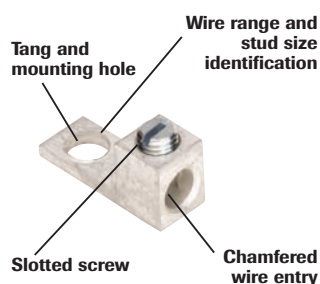


## Powr-Connect™ Mechanical Lugs

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

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

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



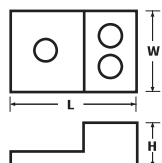
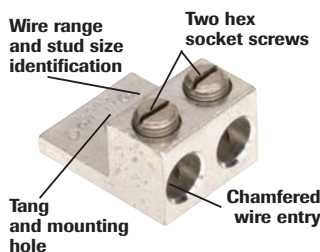
Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
LA-50-1	6 – 14 AWG	1-1/16	3/8	1/2	1/4	87-002
Narrow type – special mounting requirements						
LA-2	2 – 14 AWG	1-5/32	1/2	9/16	1/4	87-005
LA-1/0	1/0 – 14 AWG	1-15/32	5/8	25/32	1/4	87-007
LA-1/0*	1/0 – 14 AWG	1-15/32	5/8	25/32	3/8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

\*Larger mounting hole



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

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

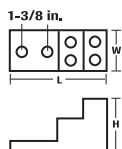
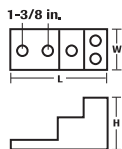
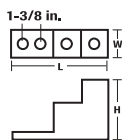
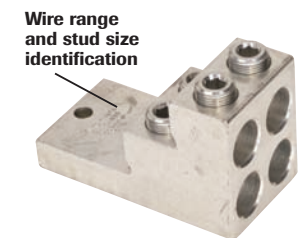
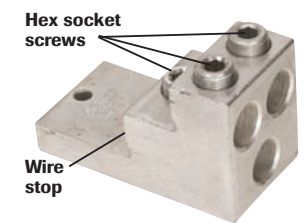
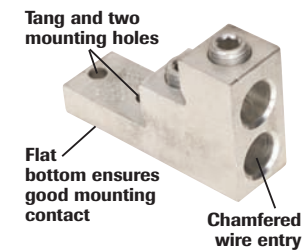


Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
L2A1-1/0	1/0 – 14 AWG (2)	1-15/32	1-1/8	25/32	1/4	87-040
L2A1-2/0	2/0 – 14 AWG (2)	1-15/32	1-1/4	25/32	1/4	87-042
L2A1-250	250 KCMIL – 6 AWG (2)	2-9/16	1-5/8	1-3/16	3/8	87-044
L2A1-350	350 KCMIL – 6 AWG (2)	2-7/8	1-15/16	1-1/4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



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

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

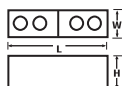
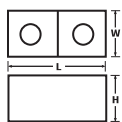
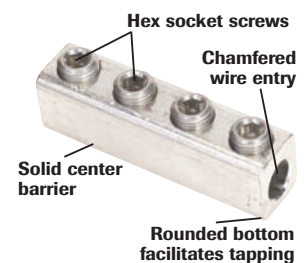
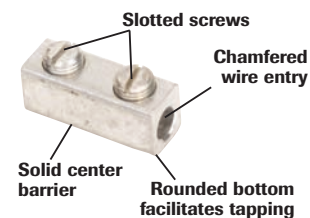


Model	Wire Range	Dimensions (Inches)			Stud Size (In.)	Cat. No.
		L	W	H		
PV2-600	600 KCMIL – 2 AWG	4-29/32	1-1/2	3	3/8	87-126
PV2-750	750 KCMIL – 1/0 AWG	4-29/32	1-9/16	3	3/8	87-129
PV3-600	600 KCMIL – 2 AWG	4-29/32	2-1/2	3	3/8	87-132
PV3-750	750 KCMIL – 1/0 AWG	4-29/32	2-27/32	3	3/8	87-135
PV4-600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



## Dual-Rated (Al/Cu) Splicer Reducers

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



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

\*Slotted screws

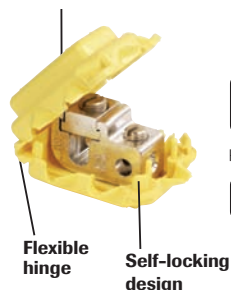


## Powr-Connect™ Tap Connectors

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

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

Insulating cover reduces installation cost

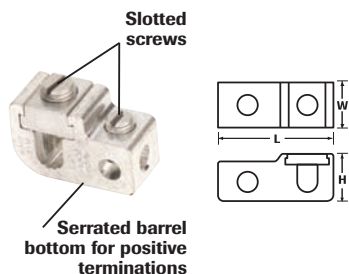


Model	Wire Range		Strip Length (In.)	Dimensions (Inches)			Cat. No.
	Main	Tap		L	W	H	
GP-2C	2 – 12 AWG	4 – 14 AWG	5/8	2-7/32	1-29/32	1-7/64	<b>87-180</b>
GP-1/0C	1/0 – 2 AWG	1/0 – 14 AWG	3/4	2-5/8	2-5/32	1-1/4	<b>87-182</b>
GP-250C	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	3-7/16	2-7/8	1-5/8	<b>87-186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



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

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

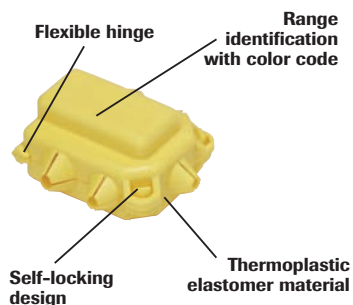


Model	Wire Range		Strip Length (In.)	Dimensions (Inches)			Cat. No.
	Main	Tap		L	W	H	
GP-2	2 – 12 AWG	4 – 14 AWG	5/8	1-25/64	5/8	7/8	<b>87-150</b>
GP-1/0	1/0 – 2 AWG	1/0 – 14 AWG	3/4	1-3/4	3/4	1	<b>87-152</b>
GP-250	250 KCMIL – 1/0 AWG	250 KCMIL – 6 AWG	1-1/16	2-9/32	1-1/16	1-5/16	<b>87-156</b>



### Insulating Covers for Parallel-Tap Connectors

- 600V maximum
- 105°C maximum temperature



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





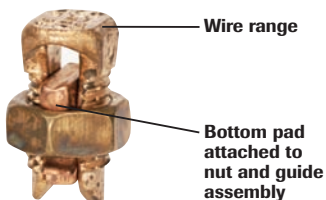
## Powr-Connect™ Grounding Connectors

- Designed to maintain proper contact and alignment between ground and wire rod

- Brass or plated screws for corrosion resistance
- High-strength copper alloy construction

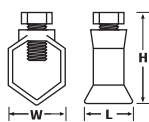
### Type K Split Bolts for Copper Connections

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



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

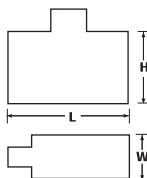
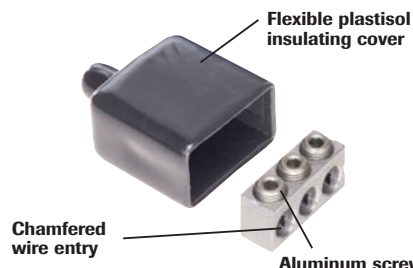
### Heavy-Duty Clamps



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

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

- UL 486A Listed (Lug only)



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

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

- UL 486B Listed AL9CU

Spacer provides serration to retard corrosion

"Tooth" configuration provides low contact resistance



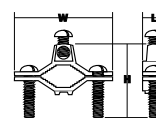
Aluminum, tin-plated to inhibit oxide formation

Anti-galling threaded components



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

### High-Strength Ground Clamps

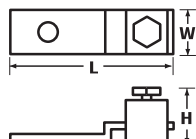
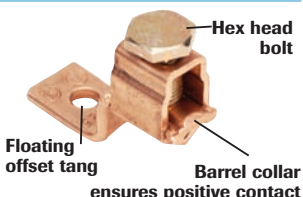
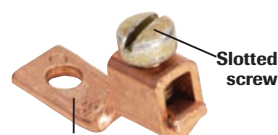


Model	Pipe Size (In.)	Wire Range	Dimensions (Inches)			Cat. No.
			H	W	L	
J	1/2 – 1	2 – 10	2-3/4	2-3/8	3/4	<b>87-563</b>
J2	1-1/4 – 2	2 – 10	3-3/4	3-5/8	7/8	<b>87-564</b>

## Powr-Connect™ Mechanical Solderless Lugs

### Single-Hole Solderless Lugs for Copper Conductors (Offset)

- Electrolytic copper construction
- UL 486A listed



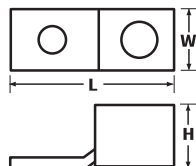
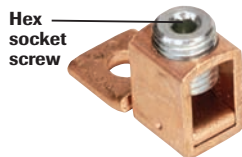
Model	Wire Range	Stud Size (In.)	Dimensions (Inches)			Cat. No.
			L	W	H	
CF-25*	10 – 14 AWG	#8	1	5/16	3/8	87-700
CF-35	6 – 14 AWG	3/16	1-3/32	3/8	3/4	87-701
CF-70	4 – 14 AWG	1/4	1-5/16	1/2	13/16	87-702
CF-90	2 – 8 AWG	1/4	1-15/32	1/2	1	87-703
CF-125	1/0 – 2 AWG	1/4	1-13/16	5/8	1-11/32	87-704
CF-225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

\*Not CSA Certified



### Single-Hole Solderless Lugs for Copper Conductors

- Electrolytic copper construction
- UL 486A Listed



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

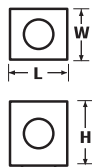


### Dual-Rated (Al/Cu) Collar Connectors

Slotted wire screw



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



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

\*Successfully tested to AL9CU

\*\*Successfully tested to AL7CU

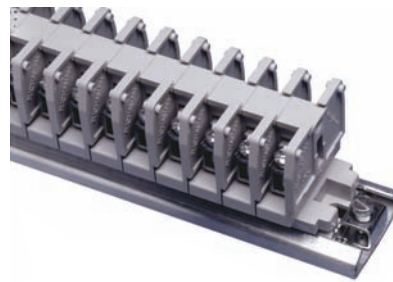




Our **wedge-edge** expanding spring is specially designed for faster pull-up and quick connections. It also accommodates a wide range of wire gauges.



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



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



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

(2) #18 stranded



(1) #14 solid



(1) #18 stranded  
(2) #14 solid



(1) #14 solid  
(2) #12 stranded



(2) #10 stranded



(3) #12 solid  
(2) #14 solid



(5) #12 solid

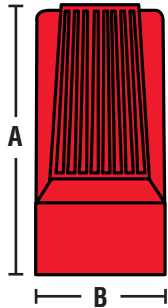


## B-CAP® Wire Connectors

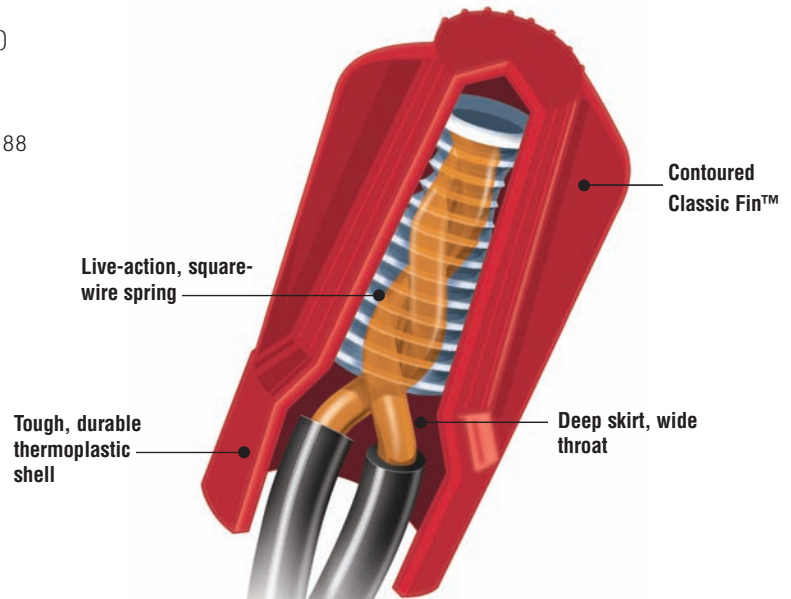
- Three color-coded models cover a full range of wire sizes from 22 AWG through 6 AWG
- Classic Fin™ design provides secure grip for extra leverage on maximum wire combinations
- Live-action spring expands to accept wire shape and size – no pre-twisting required
- Square-wire spring threads directly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



### Dimensions (Inches / mm)



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



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

\*1,000V maximum in fixtures and signs

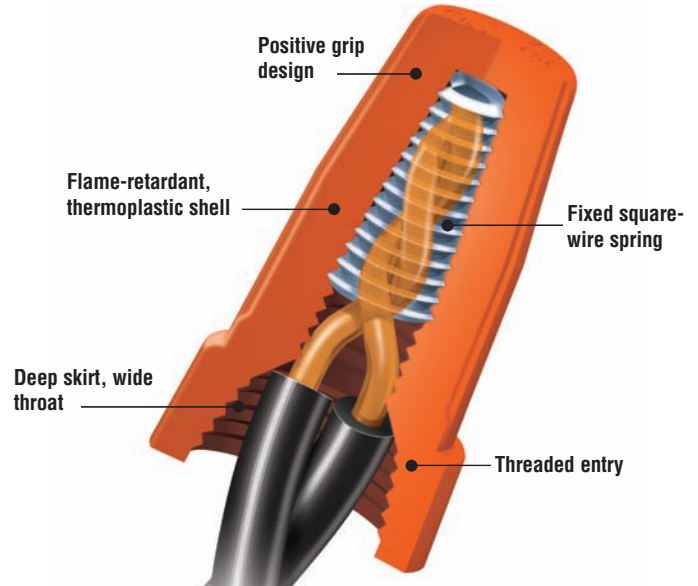
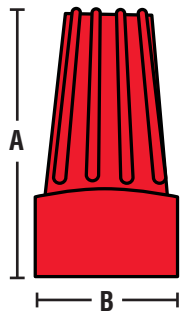
## WireTwist™ Wire Connectors

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



Dimensions (Inches / mm)

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



Twist-on Wire Connectors

Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	BUCHANAN Cat. No.	IDEAL Cat. No.
WT1	Gray	300V 22 to 14 AWG Min. 3 #22 Max. 2 #16	300V ,34mm <sup>2</sup> to 2,5mm <sup>2</sup> Min. 3-,34mm <sup>2</sup> Max. 2-1,5mm <sup>2</sup>	100 / Box	<b>WT1-1</b>	<b>30-WT1C</b>
				500 / Bag	<b>WT1-B</b>	<b>30-WT1B</b>
				50,000 / Barrel	—	<b>30-891</b>
WT2	Blue	300V 22 to 14 AWG Min. 3 #20 Max. 3 #16	300V ,34mm <sup>2</sup> to 2,5mm <sup>2</sup> Min. 3-,50mm <sup>2</sup> Max. 3-1,5mm <sup>2</sup>	100 / Box	<b>WT2-1</b>	<b>30-WT2C</b>
				500 / Bag	<b>WT2-B</b>	<b>30-WT2B</b>
				50,000 / Barrel	—	<b>30-892</b>
WT3	Orange	600V* 22 to 14 AWG Min. 2 #18 Max. 2 #14	600V* ,34mm <sup>2</sup> to 2,5mm <sup>2</sup> Min. 2-,75mm <sup>2</sup> Max. 2-2,5mm <sup>2</sup>	100 / Box	<b>WT3-1</b>	<b>30-WT3C</b>
				500 / Bag	<b>WT3-B</b>	<b>30-WT3B</b>
				50,000 / Barrel	—	<b>30-893</b>
WT4	Yellow	600V* 22 to 10 AWG Min. 3 #20 Max. 2 #12	600V* ,75mm <sup>2</sup> to 6,0mm <sup>2</sup> Min. 3-,50mm <sup>2</sup> Max. 2-4,0mm <sup>2</sup>	100 / Box	<b>WT4-1</b>	<b>30-WT4C</b>
				500 / Bag	<b>WT4-B</b>	<b>30-WT4B</b>
				30,000 / Barrel	—	<b>30-894</b>
WT6	Red	600V* 20 to 8 AWG Min. 2 #14 Max. 4 #12	600V* ,50mm <sup>2</sup> to 10,0mm <sup>2</sup> Min. 2-2,5mm <sup>2</sup> Max. 4-4,0mm <sup>2</sup>	100 / Box	<b>WT6-1</b>	<b>30-WT6C</b>
				250 / Bag	<b>WT6-B</b>	<b>30-WT6B</b>
				20,000 / Barrel	—	<b>30-896</b>

\*1,000V maximum in fixtures and signs

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





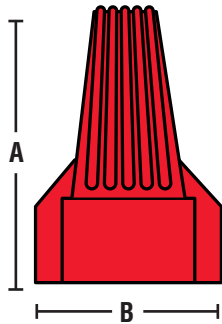
## WingTwist™ Wire Connectors

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



### Dimensions (Inches / mm)

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



Tough, flame-retardant shell

Fixed square-wire spring

Deep, wide skirt

Built-in contoured wings



Model	Color	Wire Combination Range (Inches)	Wire Combination Range (mm)	Quantity / Package	BUCHANAN Cat. No.	IDEAL Cat. No.
WT51	Yellow	600V* 18 to 10 AWG Min. 2 #18 Max. 3 #12	600V* ,75mm <sup>2</sup> to 6,0mm <sup>2</sup> Min. 2-,.75mm <sup>2</sup> Max. 3-4,0mm <sup>2</sup>	100 / Box	WT51-1	30-WT51C
				500 / Bag	WT51-B	30-WT51B
				500 / Jar	WT51-500JR	30-WT51J
				25,000 / Barrel	WT51-SK	—
				30,000 / Barrel	—	30-886
WT41	Tan	600V* 22 to 10 AWG Min. 2 #20 Max. 3 #10 Solid	600V* ,34mm <sup>2</sup> to 6,0mm <sup>2</sup> Min. 2-0,5mm <sup>2</sup> Max. 3-6,0mm <sup>2</sup>	100 / Box	WT41-1	30-WT41C
				500 / Bag	WT41-B	30-WT41B
				500 / Jar	WT41-500JR	30-WT41J
				25,000 / Barrel	WT41-SK	30-885
WT52	Red	600V* 18 to 10 AWG Min. 2 #14 Max. 5 #12	600V* ,75mm <sup>2</sup> to 6,0mm <sup>2</sup> Min. 2-2,5mm <sup>2</sup> Max. 5-4,0mm <sup>2</sup>	100 / Box	WT52-1	30-WT52C
				500 / Bag	WT52-B	30-WT52B
				500 / Jar	WT52-500JR	30-WT52J
				25,000 / Barrel	WT52-SK	—
				20,000 / Barrel	—	30-887
WT54	Blue	600V* 14 to 6 AWG Min. 3 #12 Max. 2 #6	600V* 2,5mm <sup>2</sup> to 16,0mm <sup>2</sup> Min. 3-4,0mm <sup>2</sup> Max. 2-16,0mm <sup>2</sup>	50 / Box	WT54-1	30-WT54C
				100 / Bag	WT54-B	30-WT54B
WGR	Green	14 to 10 AWG Min. 2 #14 Max. 5 #12	2,5mm <sup>2</sup> to 6,0mm <sup>2</sup> Min. 2-2,5mm <sup>2</sup> Max. 5-4,0mm <sup>2</sup>	50 / Box	WGR-1	30-WGRC
				250 / Bag	WGR-B	30-WGRB
				500 / Jar	WGR-500JR	30-WGRJ
				25,000 / Barrel	WGR-SK	30-890
WT5	Assortment**	See WT51 & WT52 above	See WT51 & WT52 above	(75 Yellow, 75 Red)/Jar	WT5152JR	—

\*1,000V maximum in fixtures and signs

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

## Splice Cap Crimp Connectors

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



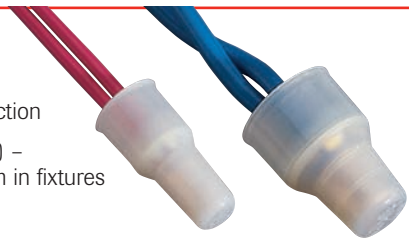
Description	Wire Combination Range (Inches)	Quantity / Package	Cat. No.
Copper Crimp Connector	600V* 18 to 10 AWG Min. 2 #18 Max. 4 #12	100 / Box	<b>2006S</b>
		1,000 / Bag	<b>2006SB</b>
Copper Crimp Connector	600V* 14 to 4 AWG Min. 2 #10 Max. 2 #6	50 / Box	<b>2011S</b>
		500 / Bag	<b>2011SB</b>

\*1,000V maximum in fixtures and signs



## Splice Cap Insulators

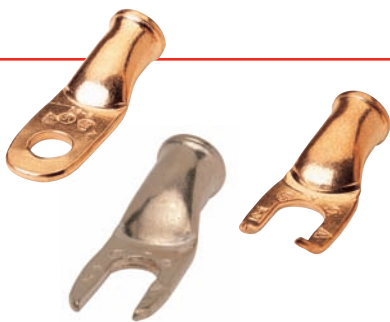
- Convenient, safe and fast installation
- Snap-on nylon construction
- Rated at 105°C (221°F) – 600V (1,000V maximum in fixtures and signs)



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

## Termend® Lugs

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



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

## Four-Way Crimp Tool

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



Description	Cat. No.
Four-Way Crimp Tool	<b>C-24</b>

## NM Cable Connectors

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



Description	Quantity	Cat. No.
12 in. NM Cable Connector	100	<b>1050</b>

## B-TAP® Insulation-Piercing Tap Connectors

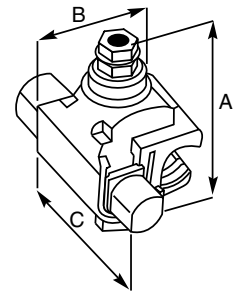
- Eliminates split bolts and tape
- Easy two-minute installation requires only box/socket wrench
- Installs on energized systems eliminating costly power shutdowns
- Self-sealing, grease-filled end-cap ensures safe, weather-tight connection
- Unique turbo spacer keeps connector wide open for quick and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



B-Tap® Wire Range Chart

Cat. No.	Main: / Tap:	Wire Size																		
		14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500	750
BTC1/0-10	Main: 1/0 - 8 Tap: 2 - 10																			
BTC2/0-14	Main: 2/0 - 4 Tap: 10 - 14																			
BTC4/0-4	Main: 4/0 - 2 Tap: 4/0 - 4																			
BTC4/0-10	Main: 4/0 - 3 Tap: 2 - 10																			
BTC4/0-6	Main: 4/0 - 2 Tap: 2/0 - 6																			
BTC250-4	Main: 250 - 1 Tap: 4/0 - 4																			
BTC350-1/0	Main: 350 - 1/0 Tap: 350 - 1/0																			
BTC500-4	Main: 500 - 2/0 Tap: 4/0 - 4																			
BTC500-1/0	Main: 500 - 4/0 Tap: 350 - 1/0																			
BTC500-14	Main: 750 - 3/0 Tap: 10 - 14																			
BTC750-250	Main: 750 - 250 Tap: 500 - 250																			

Main —  
Tap —



Conductor Range		Voltage Rating	Dimensions (Inches)			Socket Size (Inches)	Torque (In. Lbs.)	No. of Bolts	Cat. No.
Run	Tap		A	B	C				
1/0-8	2-10 <sup>1</sup>	600V	3.1	1.8	2.2	1/2	80	1	<b>BTC1/0-10</b>
2/0-4	10-14 <sup>2</sup>	600V	3.1	1.8	2.2	1/2	80	1	<b>BTC2/0-14</b>
4/0-2	4/0-4	600V	4.4	2.4	3.2	1/2	160	1	<b>BTC4/0-2</b>
4/0-3	2-10 <sup>3</sup>	600V	3.1	1.8	2.2	1/2	125	1	<b>BTC4/0-10</b>
4/0-2	2/0-6	600V	3.5	2.2	2.5	1/2	160	1	<b>BTC4/0-6</b>
250-1	4/0-4	600V	3.5	2.2	2.5	1/2	160	1	<b>BTC250-4</b>
350-1/0	350-1/0	600V	4.5	3	3.9	5/8	330	2	<b>BTC350-1/0</b>
500-2/0	4/0-4	600V	4.5	3	3.9	5/8	330	2	<b>BTC500-4</b>
500-4/0	350-1/0	600V	4.5	3	3.9	5/8	330	2	<b>BTC500-1/0</b>
750-3/0	10-14 <sup>4</sup>	600V	3.7	2.5	2.2	1/2	80	1	<b>BTC500-14</b>
750-250	500-250	600V	4.7	3.4	4.75	5/8	330	2	<b>BTC750-250</b>
Assortment*									<b>BTCA-2</b>

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

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

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

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

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



## Waterproof Breakaway Steetlight Connector & Splice Insulating Kits

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



### Application Guide

#### Examples of Several Kit Configurations

### For Poles with Transformer Bases, Standard Bases and Junction Boxes

#### Underground Feed Phase to Phase

##### Configurations

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

##### Comments

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

#### Underground Feed Phase to Neutral

##### Configurations

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

##### Comments

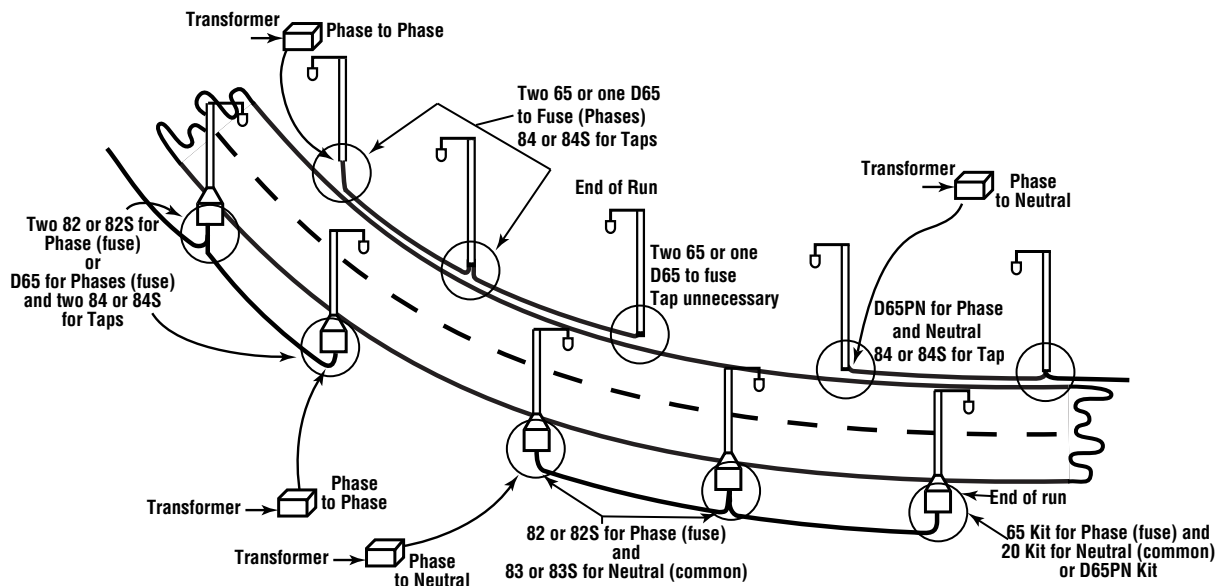
- Recommended configuration
- Cost-effective
- Non-breakaway, small gauge (8 AWG and above). See Wire Connector section.

### For Lights Mounted to Utility Poles, etc...

#### Overhead Feed

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

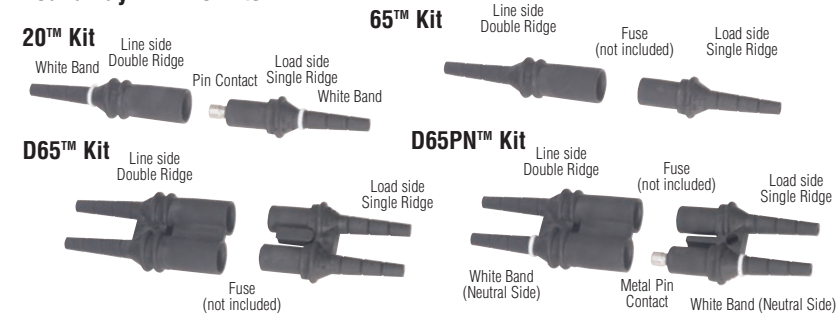
Recommended configuration, see B-Tap® Insulation Piercing Connectors in this catalog.



## Ordering Information

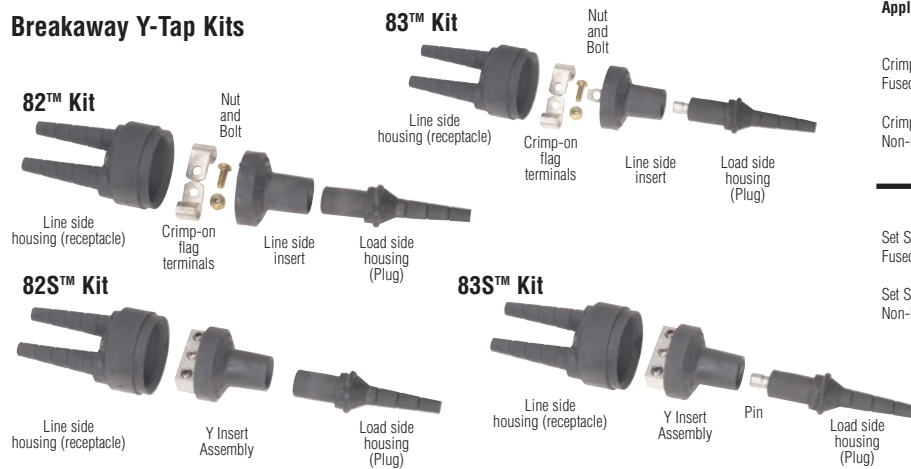
Use the following chart and table to determine the correct part number by choosing model, line side, and load side ordering codes from the shaded columns. See example below, right (Page A-45).

### Breakaway In-Line Kits



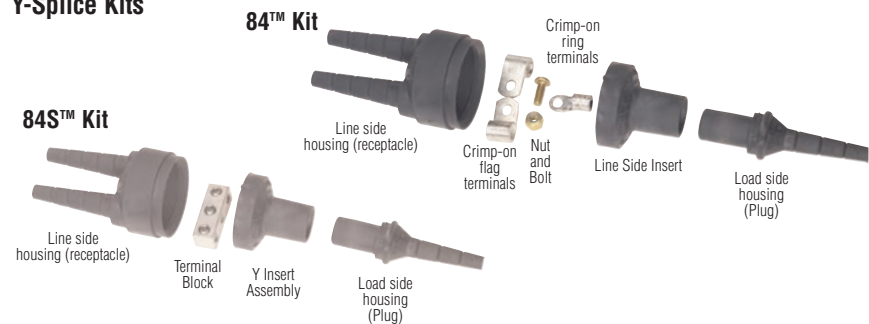
MODEL		
Application	Electrical Rating	Ordering Code
In-Line Neutral Non-Fused Breakaway	30 Amp 600 Volt	20 -
In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	65 -
Dual In-Line Phase Fused Breakaway	1/10-30 Amp 600 Volt	D65 -
Dual In-Line Phase & Neutral Fused Breakaway	1/10-30 Amp Phase 30 Amp Neutral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

### Breakaway Y-Tap Kits



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

### Y-Splice Kits



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

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

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



# Wire Termination

## LINE SIDE

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

## LOAD SIDE

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

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

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

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

75°C / 600 Volts Max.



LR32565

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

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

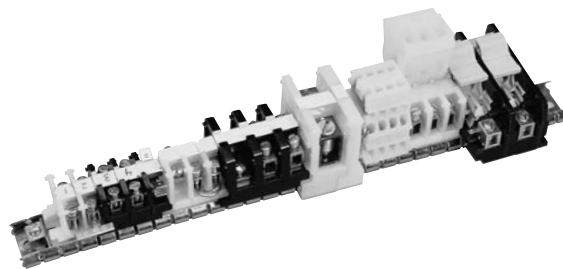
### Example:

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

## Terminal Blocks

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

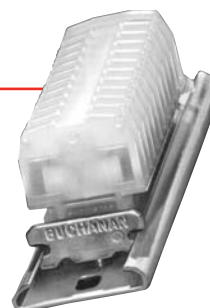
- Wide range of configurations to solve virtually any wiring need
- Wide wire ranges – 30 AWG to 250 KCMIL (MCM)
- Easy installation – connect and disconnect quickly making them perfect for maintenance and troubleshooting applications
- Versatile, accommodating sectional design
- Three housing options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



### 100 Series - Miniature (High Density)

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

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



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

WIRE RANGE: Solid or Stranded

#### Tubular Clamp

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

### Terminal Block Specifications

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

## Miniature - Single Tier HIGH DENSITY

### Flat Base

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

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

#### On Miniature #12 Channel:

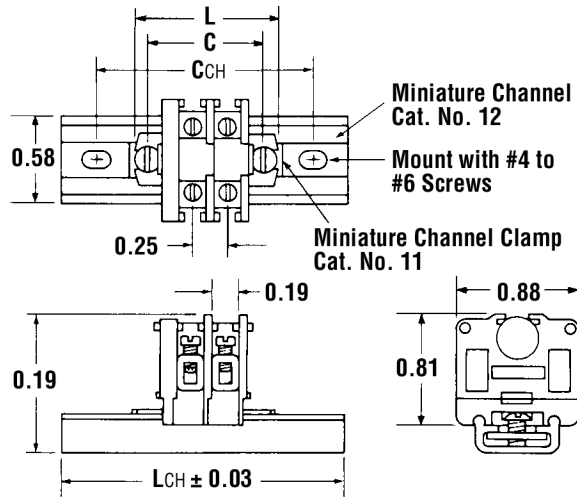
$$C_{CH} = 1.00 + (.25 \times A)$$

$$L_{CH} = 1.35 + (.25 \times A)$$

$$A = N \text{ when } N \text{ is even}$$

$$A = N + 1 \text{ when } N \text{ is odd}$$

N = Number of Miniature Sections



### Dovetail Base

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

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

#### On Standard #60 Channel:

$$C_{CH} = 2.00 + (.25 \times A)$$

$$L_{CH} = 2.75 + (.25 \times A)$$

N = Number of Single Tier Sections

#### On Miniature #12 Channel:

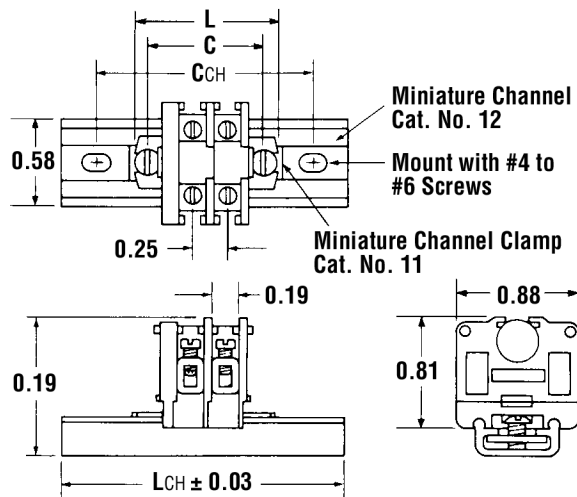
$$C_{CH} = 1.00 + (.25 \times A)$$

$$L_{CH} = 1.35 + (.25 \times A)$$

$$A = N \text{ when } N \text{ is even}$$

$$A = N + 1 \text{ when } N \text{ is odd}$$

N = Number of Miniature Sections



## 900 Series Medium Duty

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

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



### Specifications

**Center-to-Center Spacing:** .375 in.

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

**Ampacity:** #8 - #22 AWG

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

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



WIRE RANGE: Solid or Stranded

**Strap Screw**

1 #22 to 1 #14 AWG

**Tubular Screw**

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

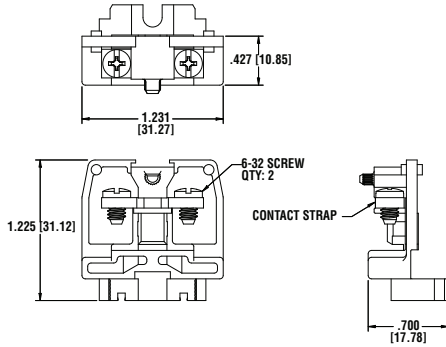
**Tubular Clamp**

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

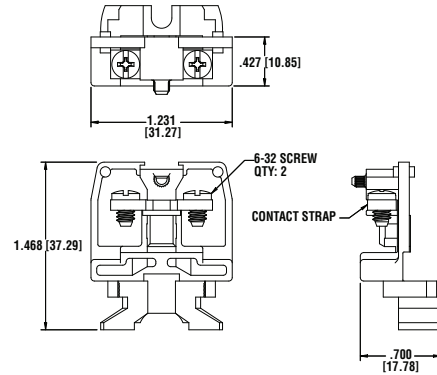
## 900 Series

### Strap Screw

#### Direct Mount (Flat Base)

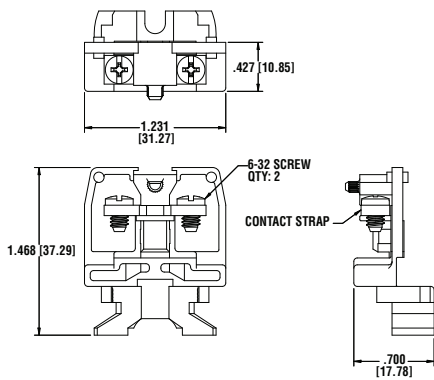


#### Channel Mount (Dovetail Base)

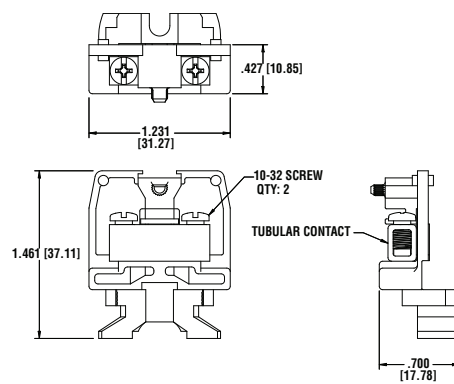


### Tubular Screw/Tubular Clamp

#### Direct Mount (Flat Base)

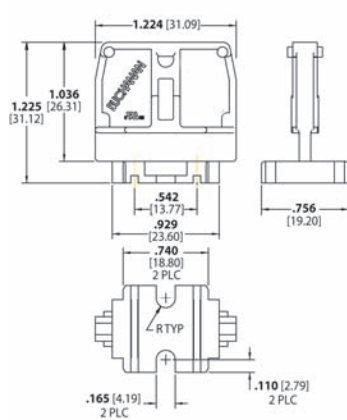


#### Channel Mount (Dovetail Base)

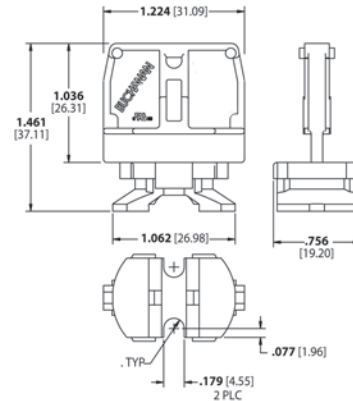


### End Section

#### Direct Mount (Flat Base)



#### Channel Mount (Dovetail Base)

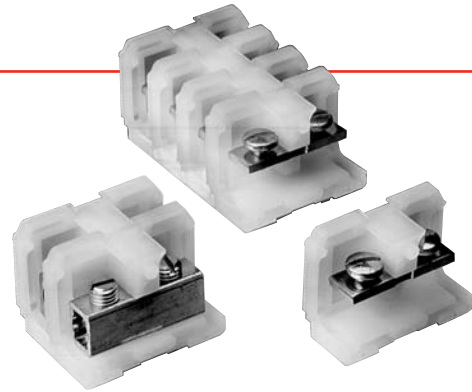




## 200 Series - Nylon HEAVY DUTY

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

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



### Specifications

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

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

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



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

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

WIRE RANGE: Solid or Stranded

**Strap Screw**

1 #22 to 1 #10 AWG

**Tubular Screw**

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

**Tubular Clamp**

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



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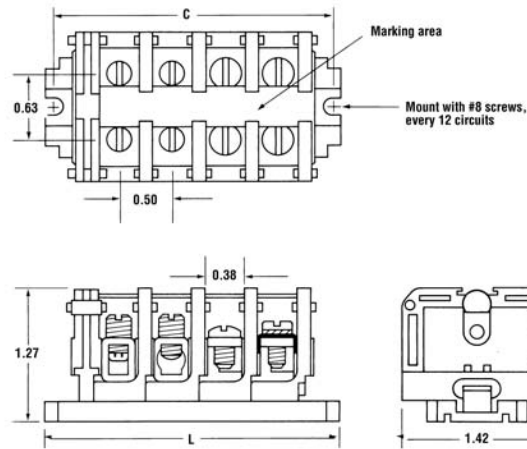
## 200 Series - Nylon HEAVY DUTY

### Flat Base (Direct Mount)

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

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

N = Number of circuits

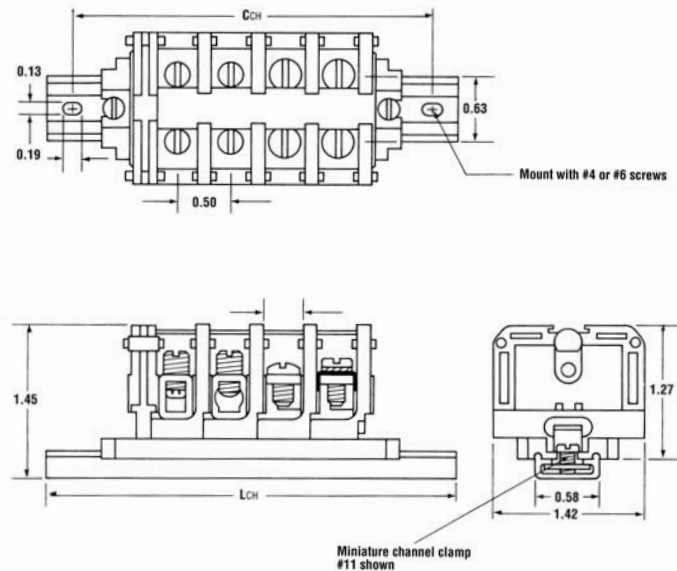


### Flat Base Mounted on #12 Miniature Channel

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

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

N = Number of Circuits

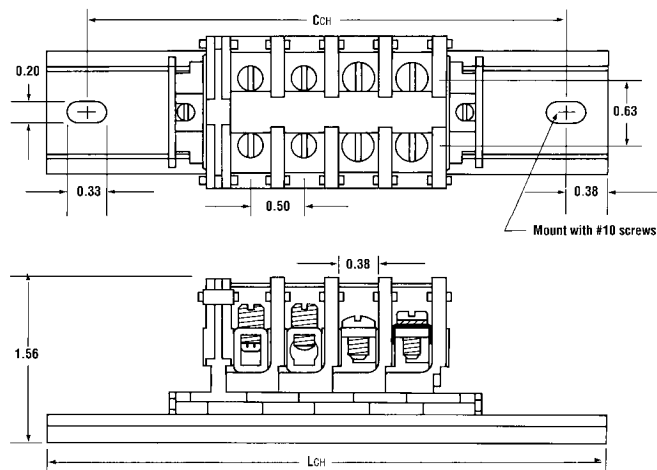
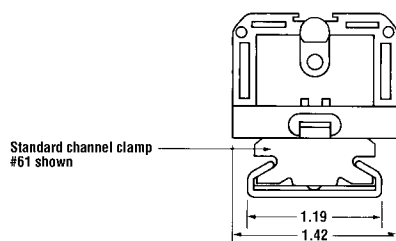


### Dovetail Base Mounted on Standard #60 Channel

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

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

N = Number of circuits



## 200 Series - Phenolic HEAVY DUTY

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

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



### Specifications

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

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

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



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

<b>Housing Material</b>	Phenolic, Filled, Flame retardant
<b>Contact Material</b>	Copper / Copper Alloy
<b>Screw Material</b>	Steel Plated
<b>Maximum Service Temperature</b>	150°C (302°F)
<b>Breakdown Voltage AC, 60Hz</b>	7000V
<b>Dielectric Strength (RH40% at sea level)</b>	300V/mil thickness (per ASTM D149)
<b>UL High Voltage Arc Testing (in./min.)</b>	.49 - .59
<b>Water Absorption (24 hrs. % weight gain)</b>	45% (per ASTM D570)
<b>Flammability</b>	94V-1 (per UL94)
<b>Chemical Resistance</b>	Resistant to acids, alkalis, aliphatic hydrocarbons and ketones (per ASTM D5343)
<b>Radiation Resistance (ergs g<sup>-1</sup> C)</b>	2.7 x 10 <sup>8</sup> min.

WIRE RANGE: Solid or Stranded

**Strap Screw**

1 #18 to 1 #8 AWG

**Tubular Screw**

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

**Tubular Clamp**

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



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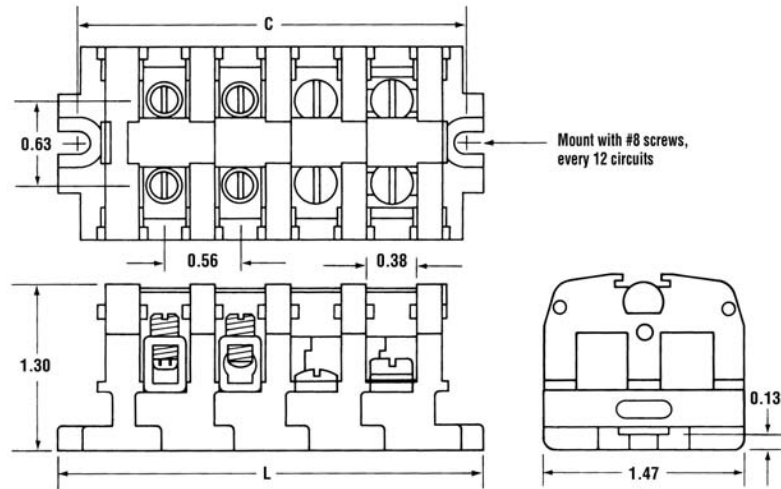
## 200 Series - Phenolic HEAVY DUTY

### Flat Base (Direct Mount)

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

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

N = Number of circuits

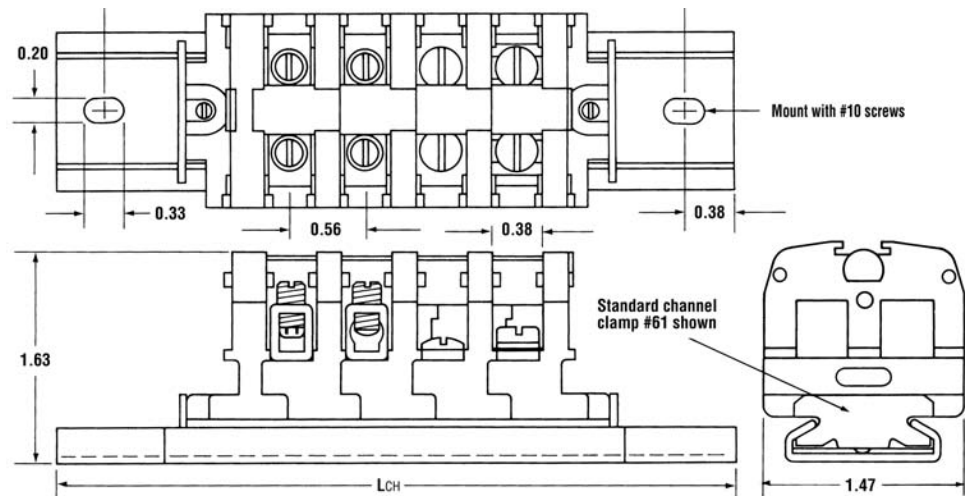


### Dovetail Base Mounted on Standard #60 Channel

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

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

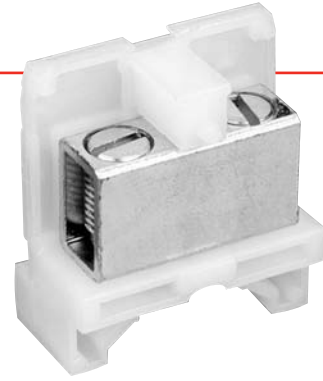
N = Number of circuits



## Nylon INTERMEDIATE HEAVY DUTY

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

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



### Specifications

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

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

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

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

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

WIRE RANGE: Solid or Stranded

**Tubular Screw**

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



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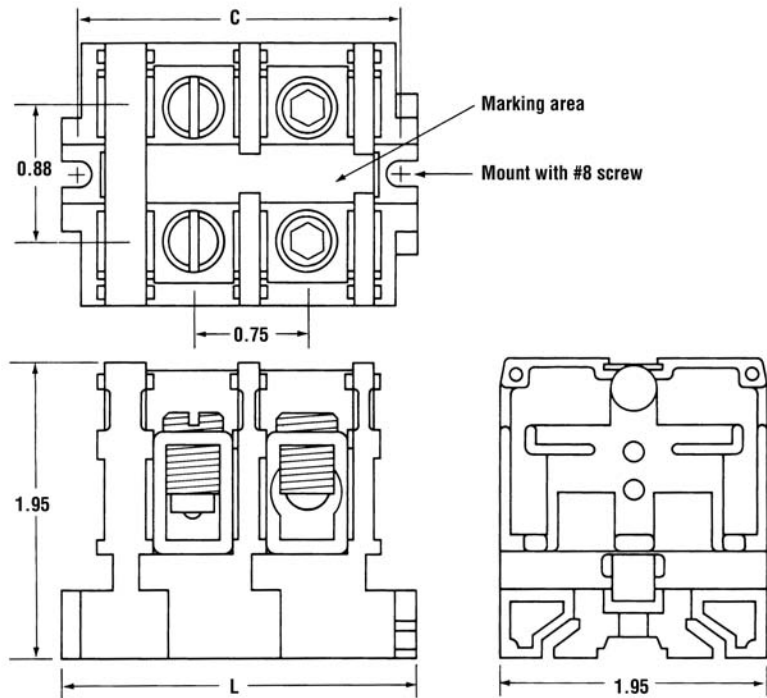
## Phenolic HEAVY DUTY

### Flat Base (Direct Mount)

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

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

N = Number of circuits

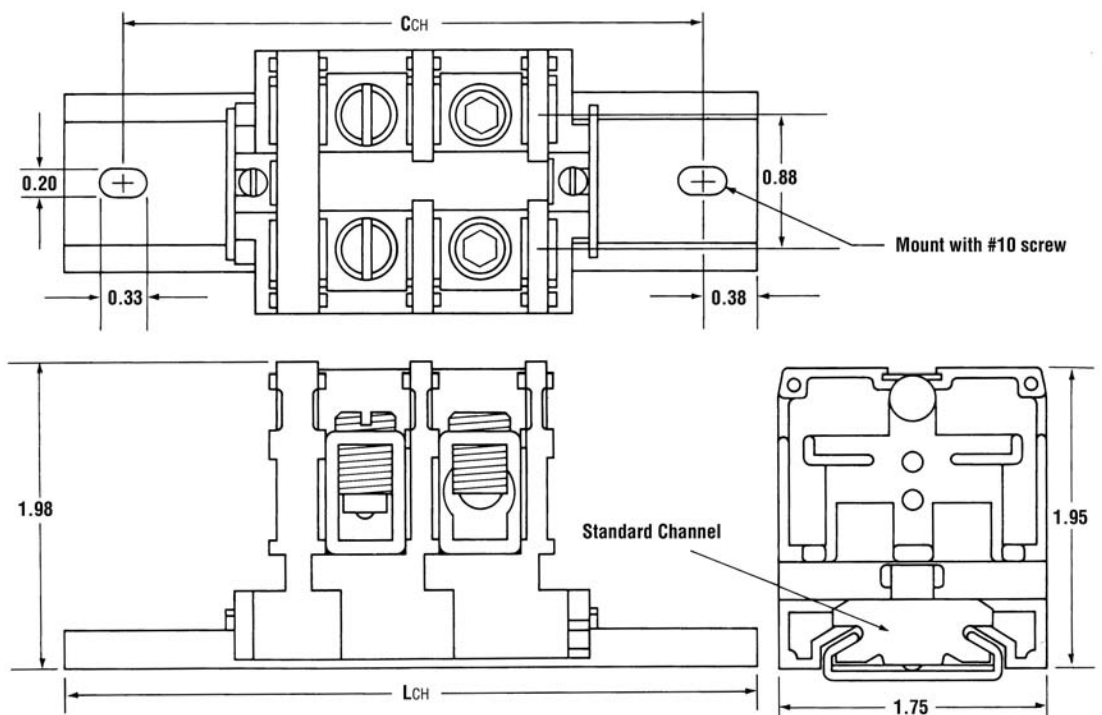


### Dovetail Base Mounted on Standard #60 Channel

$$C_{CH} = 2.31 + (.75 \times N)$$

$$L_{CH} = 3.06 + (.75 \times N)$$

N = Number of circuits



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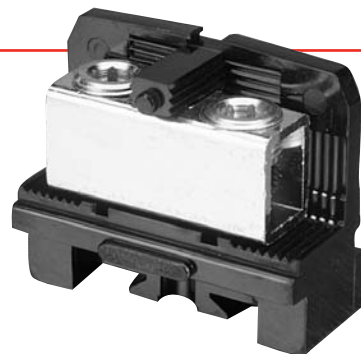


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## Phenolic ULTRA HEAVY DUTY - 250 KCMIL (MCM)

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

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



### Specifications

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

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

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

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

Housing Material	Phenolic, Filled, Flame retardant
Contact Material	Copper
Screw Material	Steel Plated
Maximum Service Temperature	150°C (302°F)
Breakdown Voltage AC, 60Hz	10000V
Dielectric Strength (RH40% at sea level)	300V/mil thickness (per ASTM D149)
UL High Voltage Arc Testing (in./min.)	.49 - .58
Water Absorption (24 hrs. % weight gain)	0.45% (per ASTM D570)
Flammability	94V-1 (per UL94)
Chemical Resistance	Resistant to acids, alkalis and aliphatic, hydrocarbons and ketones (per ASTM D543)
Radiation Resistance (ergs g <sup>-1</sup> C)	2.7 x 10 <sup>8</sup> min.

WIRE RANGE: Solid or Stranded

**Tubular Screw**

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

**Tubular Screw**

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



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## Phenolic HEAVY DUTY

### Flat Base Mounted on Standard #60 Channel

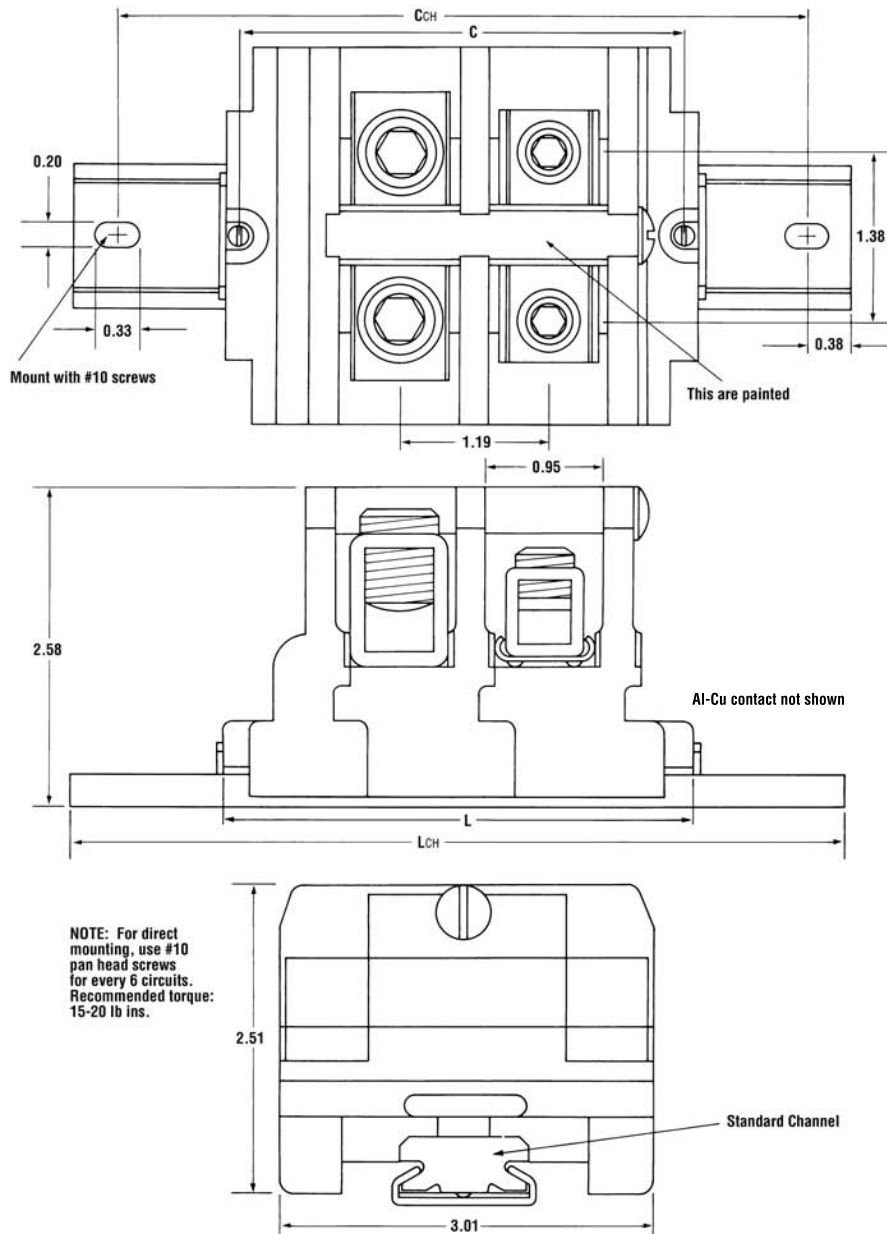
$$C = 1.19 + (1.19 \times N)$$

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

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

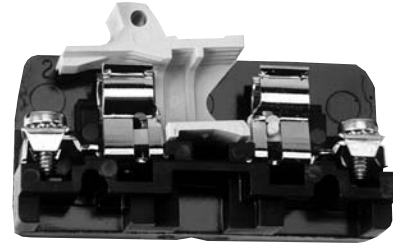
$$LCH = 3.65 + (3.65 \times N)$$

N = Number of circuits



## Phenolic Fuse Blocks

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



## Specifications

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

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

**Ampacity:** Fuse blocks, 30A

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



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

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

WIRE RANGE: Solid or Stranded

**Tubular Screw, Cat. No. 362 and 0362**

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



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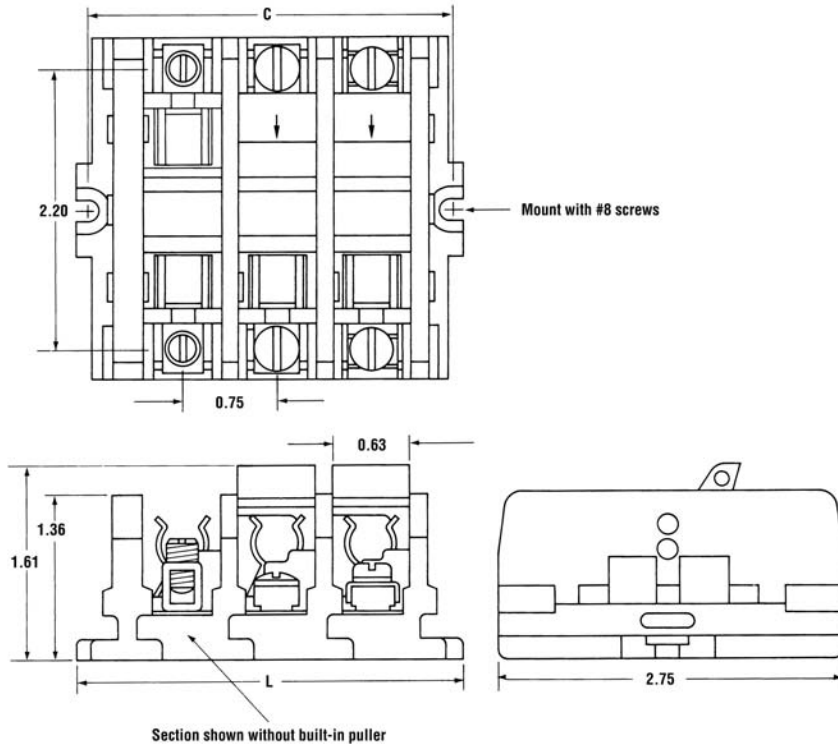
## Phenolic Fuse Blocks

### Flat Base (Direct Mount)

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

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

N = Number of circuits

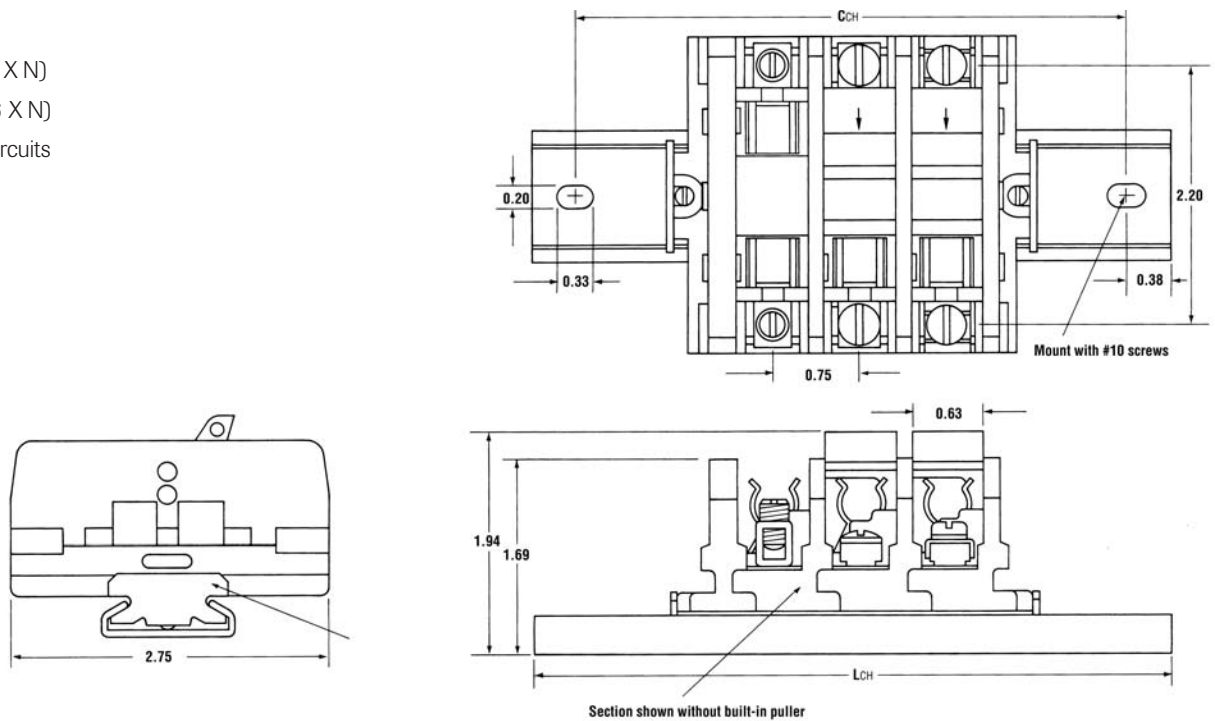


### Dovetail Base Mounted on Standard #60 Channel

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

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

N = Number of circuits



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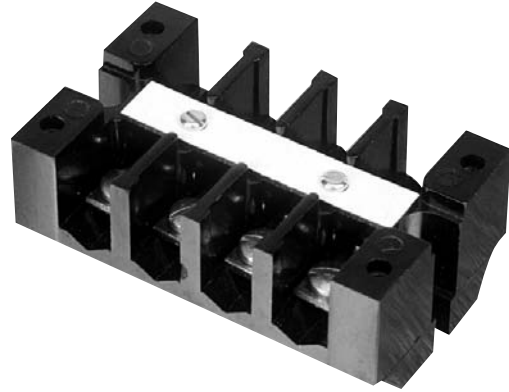
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## Phenolic One Piece

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

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



### Specifications

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

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

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

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

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

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

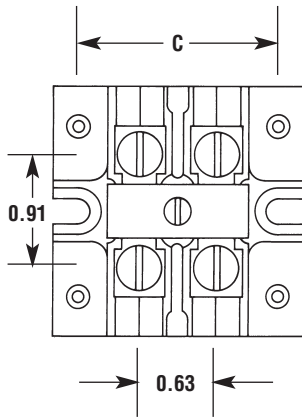
### Dimensions

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

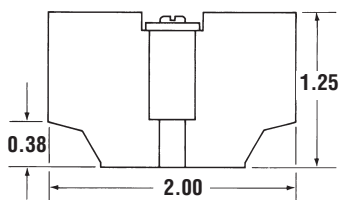
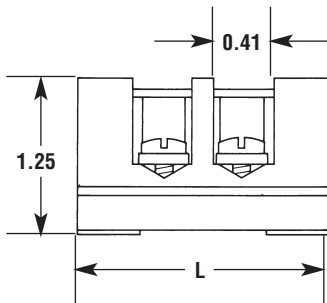


## Phenolic One Piece

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



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



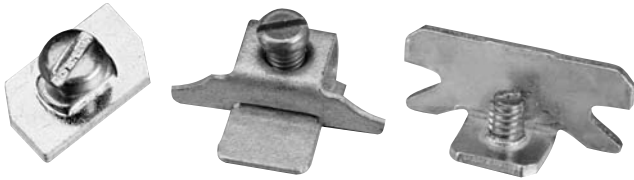
## Mounting Channels



Miniature Channel    Steel Channel    Aluminum Channel (Pre-punched)

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

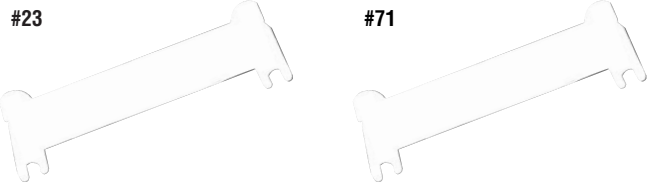
## Channel Clamps



Miniature Clamp    Universal Clamp    Screw Clamp

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

## Covers



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

## Jumpers

Jumper for Tubular Contacts



#41, 42, 70

Jumper for Strap Screw



#43

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

## Wire Marker Booklets

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

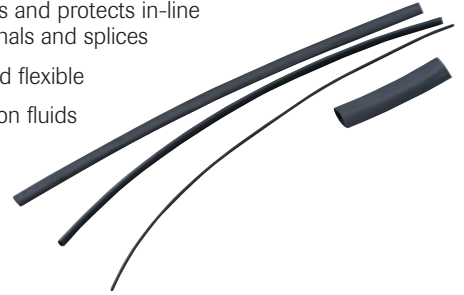


Legend	Quantity	Cat. No.
0-9	45 each	<b>775101</b>
A-Z, 0-15, +, -, /	10 each	<b>775102</b>
1-45	10 each	<b>775103</b>
46-90	10 each	<b>775104</b>

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

## BUCHANAN Thin-Wall Heat Shrink Tubing

- Electrically insulates and protects in-line components, terminals and splices
- Flame-retardant and flexible
- Resistant to common fluids and solvents
- Meets UL 224 125°C VW-1 600V
- RoHS compliant
- 2:1 shrink ratio
- Minimum shrink temperature: 70°C
- Operating temperature: -55°C to +125°C



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

## Multi-Purpose Cable Ties

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



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

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

## Assorted Cable Tie Canisters

- Perfect general purpose assortment for almost any job



Description					Cat. No.
Cable Tie Assortment Canister					<b>B-ASST-500C</b>
<b>INCLUDES:</b>					
Size	Color	Tensile Strength (lbs.)	Pkg. Qty.	Cat. No.	
4"	Natural	18	200	<b>B-4-18-9-C</b>	
6"	Natural	40	100	<b>B-6-40-9-C</b>	
8"	Natural	50	200	<b>B-8-50-9-C</b>	

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

## Cable Tie Installation Tool

- Tighten-n-Trim Tool has a plastic construction, pull the trigger to tighten the tie and then twist the tool to remove the excess tail
- The economy tool has a plastic/steel construction. Use the trigger to tighten the tie. The excess tail will be automatically trimmed once the tension meets the setting on the tension adjustment dial



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