

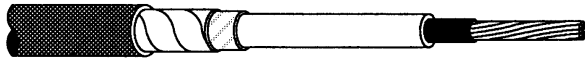


Quick Term II

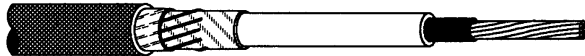
Silicone Rubber Termination Kits for Shielded Cables

Instruction Sheet

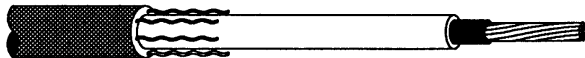
Tape Shield



Wire Shield



UniShield™



UniShield™ is a registered trademark of Cablec Corporation



Kit No.	Cable Insulation O. D. Range	Cable Jacket O. D. Range	Conductor Size Range (AWG & kcmil)		
			15 kV 100%	15 kV 133%	25 kV
5691K	0.64 - 0.90 in. (16,3 - 22,9 mm)	0.80 - 1.20 in. (20,3 - 30,5 mm)	2 - 3/0	2 - 1/0	2 - 1
5692K	0.84 - 1.33 in. (21,3 - 33,8 mm)	1.00 - 1.60 in. (25,4 - 40,6 mm)	3/0 - 400	2/0 - 350	1/0 - 250
5693K	1.10 - 1.65 in. (27,9 - 41,9 mm)	1.30 - 1.90 in. (33,0 - 48,3 mm)	500 - 750	400 - 750	300 - 500
5694K	1.30 - 1.95 in. (33,0 - 49,5 mm)	1.50 - 2.40 in. (38,1 - 61,0 mm)	800 - 1750	800 - 1500	600 - 1250

Table 1

Kit Contents:

Each kit contains sufficient quantities of the materials to make three (3) terminations.

- | | |
|--|---|
| 3 Silicone Rubber Terminations | 1 Roll of Scotch™ 70 Silicone rubber Tape |
| 3 Mechanical Ground Strap Assemblies | 3 Packs of Silicone Grease |
| 3 Strips of Scotch™ 24 Shielding Tape | 1 Scotch™ Brand A-2 Cable Preparation Kit |
| 3 Strips of Mastic | 1 Illustrated instruction sheet |
| 1 Roll Scotch™ 13 Semi-Conducting Tape | |

Technical Information: For use on Tape or Wire Shielded and UniShield™ Cables Copper or Aluminum Conductors IEEE Std. No. 48-1990 Class I Termination 25 kV Class, 150 kV BIL Cable Size Range: 15 kV 100% - 2 AWG - 1750 kcmil 15 kV 133% - 2 AWG - 1500 kcmil 25 kV - 2 AWG - 1250 kcmil		3M Quick Term II Silicone Rubber Termination Kits for Shielded Cables 5691K 5693K 5692K 5694K	
Number of Pages: 6	Scale: Not to Scale	78-8111-0843-6	
Issue Date: 11/17/97	Issue: A		

Instructions For Tape Shielded Cable, 15 and 25 kV

Note: The Scotch™ 24 Electrical Shielding Tape in kit will not be used for terminating tape shielded cable.

A. PREPARE CABLE

1. Check to be sure cable size fits within kit range as shown in **Table 1** on page 1.
2. Remove jacket, metallic tape shielding, semi-con and insulation as shown in **Figure 1** and **Table 2**. (Be sure to allow for depth of lug barrel [B].)
3. Wrap 2 highly stretched half-lapped layers of Scotch™ 13 Semi-Conducting Tape over the ends of the tape shield and semi-con. Start and end taping $\frac{3}{4}$ " (19 mm) onto tape shield leaving a smooth, even leading edge $\frac{1}{4}$ " (6 mm) onto cable insulation (**Figure 2**).

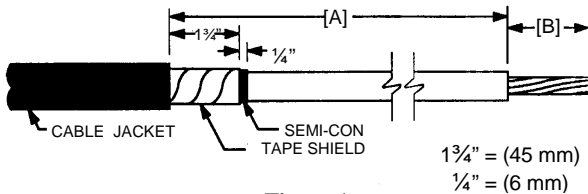


Figure 1

Kit No.	Dimension [A]	Dimension [B]
5691K	13 1/2" (343 mm)	Depth of Terminal
5692K		
5693K	14" (356 mm)	Lug Barrel
5694K		

Table 2

4. Clean cable using standard practice:
 - a. Wipe the cable insulation with one of the solvent saturated pads from the Scotch™ A-2 Cable Preparation Kit. Do not allow solvent to touch semi-con.
 - b. If abrasive must be used, use only 120 grit aluminum oxide that is provided with A-2 kit.

B. Install Ground Strap

1. Unwrap 1" to 2" (25 to 50 mm) of coil.
2. Lay the ground strap along cable with extended coil facing downward (away from you) (**Figure 2**). **NOTE: Coil should be in contact with cable shielding and as close as possible to the cable jacket end.**

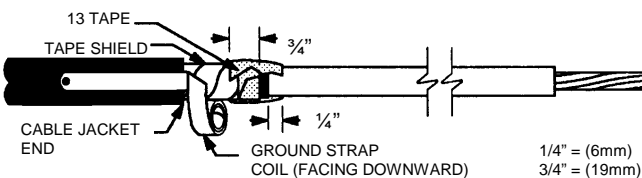


Figure 2

3. Hold the strap in place with thumb. Pull the coil around the cable allowing it to unwrap and rewrap around the shielding and itself (**Figure 3**). **NOTE: Cinch (tighten) the applied coil after final wrap.**

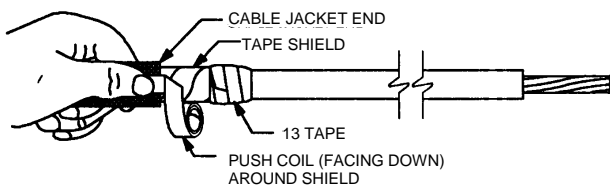


Figure 3

4. Sealing the ground strap:
 - a. Cut 2 pieces of mastic $1\frac{1}{2}$ " (38 mm) long and remove liner.
 - b. Wrap 1 piece under grounding strap and as close as possible to cable jacket end. Stretch mastic to maintain low profile. Push strap into mastic and wrap second piece over ground strap (**Figure 4**).

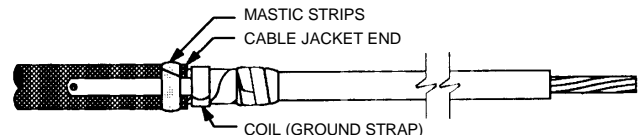


Figure 4

5. Wrap one half-lapped layer of highly stretched vinyl tape (e.g. Scotch™ Super 33+ Tape, not supplied in kit) over mastic strip and ground strap coil, to edge of previously applied 13 tape (**Figure 5**).

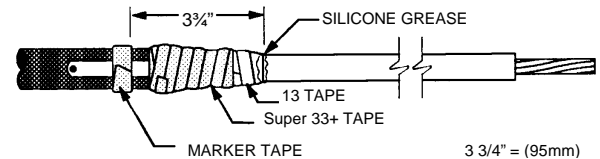


Figure 5

C. Install Termination

1. Place a marker tape $3\frac{3}{4}$ " (95 mm) back from the insulation end of the 13 Tape (**Figure 5**).
2. Cover the edge of the 13 Tape with a liberal coating of silicone grease (**Figure 5**). **NOTE: On this product, the silicone grease does not serve as a lubricant. It must be used to fill the step at the 13 Tape leading edge.** The silicone grease may also be used to fill in cable surface defects and can be applied over the ground strap seal to aid in core removal (**step C-4**).
3. Slide the termination body onto the cable, aligning the base with previously applied marker tape (**Figure 6**).

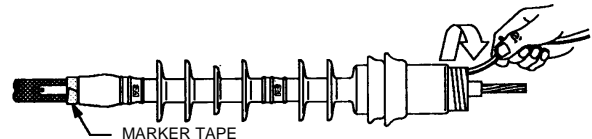


Figure 6

4. Remove termination core unwinding counter-clockwise starting with the loose end. Make sure the termination body is butted up to the edge of the marker tape (**Figure 6**). **TIP: An occasional tug of the core strand while unwinding will aid in core removal.**

D. Install Lug and Seal Terminal Area

1. Install terminal lug per manufacturer's direction. See page 5 or 6 if 3M lugs are used.
2. Wrap 4 half-lapped layers of Scotch™ 70 Silicone Rubber Tape over the lug and onto the insulator for 1" (25 mm) (**Figure 7**). **TAPING HINT: Apply first 3 layers with moderate tension. Apply last lap with zero or very little tension.**
3. If lug is not used, solder block conductor and wrap 4 half-lapped layers of 70 Tape from the solder block to 1" (25 mm) onto the insulator, using the Taping Hint in step D-2.

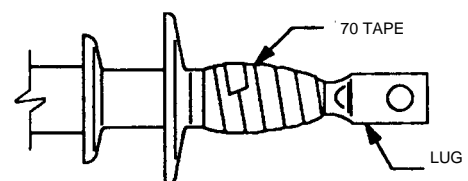


Figure 7

Instructions For Wire Shielded Cable, 15 and 25 kV

A. PREPARE CABLE

1. Check to be sure cable size fits within kit range as shown in **Table 1** on page 1.
2. Remove jacket as shown in **Figure 1** and **Table 2**. (**Be sure to allow for depth of lug barrel [B] .**)

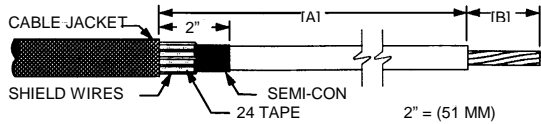


Figure 1

Kit No.	Dimension [A]	Dimension [B]
5691K	13 1/2" (343 mm)	Depth of Terminal Lug Barrel
5692K		
5693K	14" (356 mm)	Depth of Terminal Lug Barrel
5694K		

Table 2

3. Wrap 2 wraps of Scotch™ 24 Shielding Tape over shielding wires at jacket edge. Cut off excess 24 Tape (**Figure 1**).
4. Bend shielding wires back over 24 Tape and cut excess off at jacket edge (**Figure 1**).
5. Remove semi-con as shown (**Figure 1**).
6. Remove cable insulation for length of terminal lug barrel, dimension [B] (**Table 2**).
7. Wrap 2 highly stretched half-lapped layers of Scotch™ 13 Semi-Conducting Tape over end of cable semi-con. Start and end taping 3/4" (19 mm) onto cable semi-con, leaving a smooth, even leading edge 1/4" (6 mm) onto cable insulation (**Figure 2**).

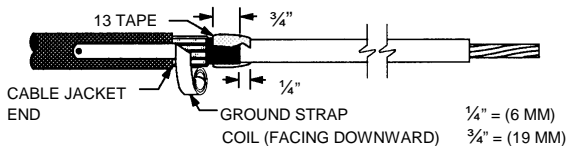


Figure 2

8. Clean cable using standard practice:
 - a. Wipe the cable insulation with one of the solvent saturated pads from the Scotch™ A-2 Cable Preparation Kit. Do not allow solvent to touch semi-con.
 - b. If abrasive must be used, use only 120 grit aluminum oxide that is provided with A-2 kit.

B. Install Ground Strap

1. Unwrap 1" to 2" (25 to 50 mm) of coil.
2. Lay the ground strap along cable with extended coil facing downward (away from you) (**Figure 2**). **NOTE: Coil should be in contact with shield wires and 24 Tape, close to the cable jacket end.**
3. Hold the strap in place with thumb. Pull the coil around the cable allowing it to unwrap and rewrap around the shielding and itself (**Figure 3**). **NOTE: Cinch (tighten) the applied coil after final wrap.**

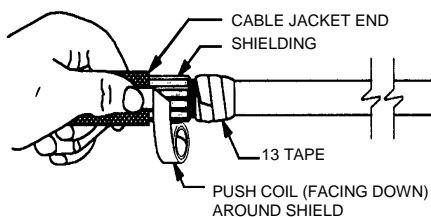


Figure 3

4. Sealing the ground strap:
 - a. Cut 2 pieces of mastic 1 1/2" (38 mm) long and remove liner.
 - b. Wrap 1 piece under grounding strap and as close as possible to cable jacket end. Stretch mastic to maintain low profile. Push strap into mastic and wrap second piece over ground strap (**Figure 4**).

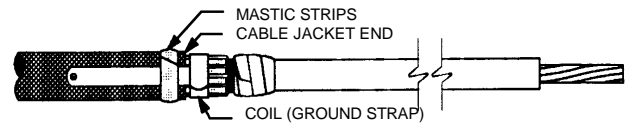


Figure 4

5. Wrap one half-lapped layer of highly stretched vinyl tape (e.g. Scotch™ Super 33+ Tape, not supplied in kit) over mastic strip and ground strap coil, to edge of previously applied 13 tape (**Figure 5**).

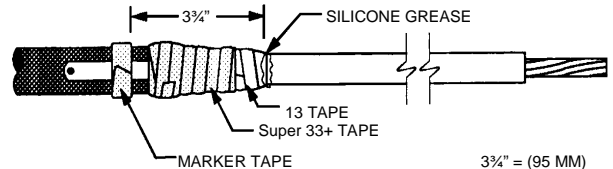


Figure 5

C. Install Termination

1. Place a marker tape 3 3/4" (95 mm) back from the end of the 13 Tape (**Figure 5**).
2. Cover the edge of the 13 Tape with a liberal coating of silicone grease (**Figure 5**). **NOTE: On this product, the silicone grease does not serve as a lubricant. It must be used to fill the step at the 13 Tape leading edge.** The silicone grease may also be used to fill in cable surface defects and can be applied over the ground strap seal to aid in core removal (step C-4).
3. Slide the termination body onto the cable, aligning the base with previously applied marker tape (**Figure 6**).

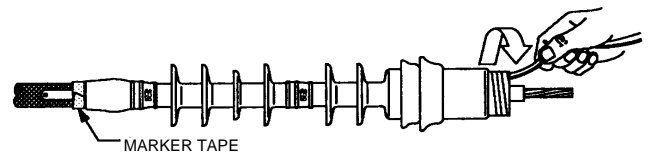


Figure 6

4. Remove termination core unwinding counter-clockwise starting with the loose end. Make sure the termination body is butted up to the edge of the marker tape (**Figure 6**). **TIP: An occasional tug of the core strand while unwinding will aid in core removal.**

D. Install Lug and Seal Terminal Area

1. Install terminal lug per manufacturer's direction. See page 5 or 6 if 3M lugs are used.
2. Wrap 4 half-lapped layers of Scotch™ 70 Silicone Rubber Tape over the lug and onto the insulator for 1" (25 mm) (**Figure 7**). **TAPING HINT: Apply first 3 layers with moderate tension. Apply last lap with zero or very little tension.**
3. If lug is not used, solder block conductor and wrap four half-lapped layers of 70 Tape from the solder block to 1" (25 mm) onto the insulator, using the Taping Hint in step D-2.

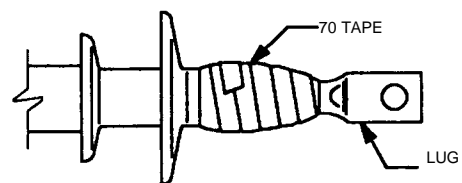


Figure 7

Instructions For UniShield™ Cable, 15 and 25 kV

Note: The ground straps and the Scotch™ 24 Electrical Shielding Tape in the kit will not be used for terminating UniShield™ cable.

A. PREPARE CABLE

1. Check to be sure cable size fits within kit range as shown in **Table 1** on page 1.
2. Remove drain wires from semi-con jacket for distance [A] + [B] + ¾" (19 mm) as shown in **Figure 1** and **Table 2**. (Be sure to allow for depth of lug barrel [B] .)

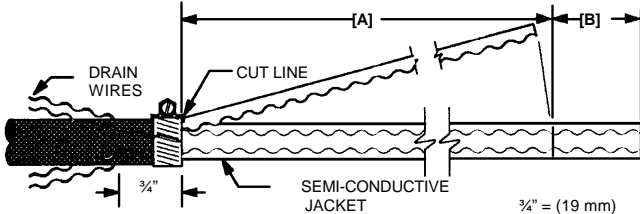


Figure 1

Kit No.	Dimension [A]	Dimension [B]
5691K	13" (330 mm)	Depth of Terminal Lug Barrel
5692K	13" (330 mm)	
5693K	13½" (343 mm)	Depth of Terminal Lug Barrel
5694K	13½" (343 mm)	

Table 2

3. Install hose clamp at dimension [A] + [B] and cut 80% through jacket (**Figure 1**, **Table 2**).
4. Remove jacket by pulling against hose clamp (**Figure 1**). DO NOT BELL SEMI-CON JACKET. **NOTE: If double-layer semi-con jacket is difficult to remove, first score it longitudinally by cutting along grooves left by drain wires.**
5. Remove cable insulation for length of terminal lug barrel.
6. Remove hose clamp.
7. Bend drain wires away from cable (**Figure 2**).
8. Wrap 1 layer of the mastic strip provided around the cable at

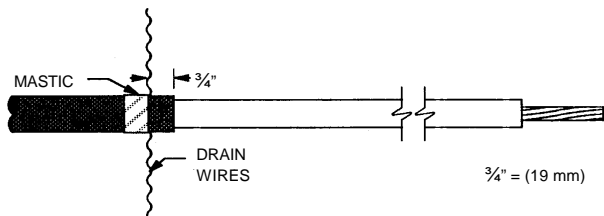


Figure 2

the base of the drain wires, ¾" (19 mm) from the jacket cut-off. Stretch the mastic slightly when applying. Cut off excess (**Figure 2**).

9. Bend the drain wires over the mastic and press into the mastic (**Figure 3**). Overwrap mastic with 2 layers of highly stretched vinyl tape (e.g. Scotch™ Super 33+ Tape, not supplied in kit).
10. Wrap two highly stretched half-lapped layers of Scotch™ 13 Semi-Conducting Tape over end of cable semi-con jacket.

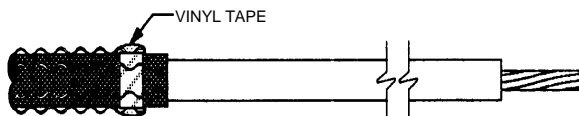


Figure 3

Start and end taping at drain wires, leaving a smooth, even leading edge 1" (25 mm) onto cable insulation (**Figure 4**).

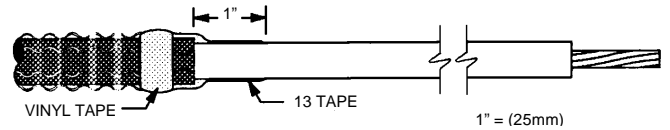


Figure 4

11. Clean cable, using standard practice:
 - a. Wipe the cable insulation with one of the solvent saturated pads from the Scotch A-2 Cable Preparation Kit. Do not allow solvent to touch semi-con.
 - b. If abrasive must be used, use only 120 grit aluminum oxide that is provided with A-2 Kit.

B. Install Termination

1. Place a marker tape 3½" (89 mm) back from the insulation end of the 13 Tape (**Figure 5**).
2. Cover the edge of the 13 Tape with a liberal coating of silicone grease (**Figure 5**). **NOTE: On this product, the silicone grease does not serve as a lubricant. It must**

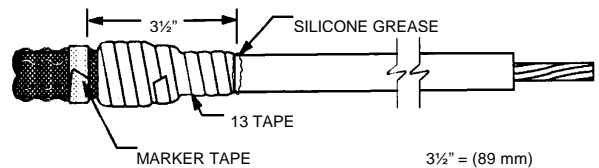


Figure 5

be used to fill the step at the 13 Tape leading edge. The silicone grease may also be used to fill in cable surface defects and can be applied over the ground strap seal to aid in core removal (**step B-4**).

3. Slide the termination body onto the cable, aligning the base with previously applied marker tape (**Figure 6**).
4. Remove termination core unwinding counter-clockwise starting with the loose end. Make sure the termination body is butted up to the edge of the marker tape (**Figure 6**). **TIP:**

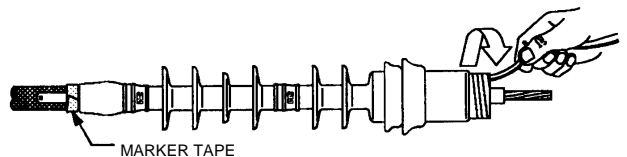


Figure 6

An occasional tug of the core strand while unwinding will aid in core removal.

C. Install Lug and Seal Terminal Area

1. Install terminal lug per manufacturer's direction. See page 5 or 6 if 3M lugs are used.
2. Wrap 4 half-lapped layers of Scotch™ 70 Silicone Rubber Tape over the lug and onto the insulator for 1" (25 mm) (**Figure 7**). **TAPING HINT: Apply first 3 layers with moderate tension. Apply last lap with zero or very little tension.**
3. If lug is not used, solder block conductor and wrap four half-lapped layers of 70 Tape from the solder block to 1" (25 mm) onto the insulator, using the Taping Hint in **step C-2**.

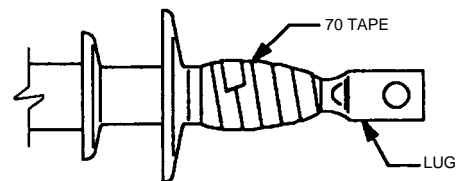
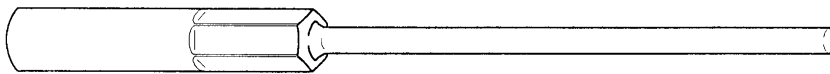


Figure 7

**Crimping Information for
3M Stem Connectors
Copper/Aluminum**



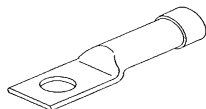
CRIMPING TABLE FOR 3M STEM TYPE CONNECTOR

Conductor Size	3M Connector Number	Recommended Crimping Tools				
		Manufacturer	Mechanical Tool	Die (No. of Crimps)	Hydraulic Tool	Die (No. of Crimps)
2 AWG Solid 1 AWG, 2 AWG 1/0 AWG	SC0002	Burndy	MD6	BG(4), W243(4)	Y35, Y39, Y45 **	U25ART (2), U243 (2)
	SC0001	Keamy	0-51, 0-52	5/8-1(4)	12, 20, 40 TON	5/8-1(4)
	SC0010	T & B	TBM 8	Olive (2)	TBM 15	50* (2)
		Anderson	—	—	VC 6	Universal (2)
2/0 AWG 3/0 AWG 4/0 AWG	SC0020	Burndy	MD6	W669 (0) 840 (5)*	Y35, Y39, Y45 **	U28ART (2)
	SC0030	Keamy	0-51, 0-52	840 (5) *	WH-1, WH-2	840 (2)
	SC0040	T & B	TBM 8	White (4)	TBM 15	66 (3)
		Anderson	—	—	VC 6	Universal (2)

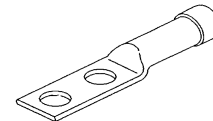
Tooling Index

**Lug and Crimping Information for
Scotchlok™ Copper/Aluminum Lugs**

**40016 thru 40079
One hole**



**40132 thru 40178
Two hole**



Cable Size AWG/ kcmil	Stud Size (in.)	Scotchlok™ Lug Number	CRIMPING TOOL-DIE SETS (NO. OF CRIMPS)													
			Burndy Corporation					Thomas & Betts Corporation				Square D Co. Anderson Div.		ITT Black- burn Co.	Kearney Nat'l Div.	
			MD6	MY29	Y34A	Y35, 39, 45*, 46*	** Y1000	TBM 5	TBM 8	TBM 12	TBM 15	VC6-3** VC6-FT**	VC8C	OD58	TYPE 0	
6	5/16	40016	W161 (1)	6 AWG (1)	A6CAB (1)	U6CABT (1)	(1)	Grey (1)	Grey (1)	—	29 (1)	(1)	—	BY19 (3)	J (3)	
4	5/16	40020	W162 (3)	4 AWG (1)	A4CAB (1)	U4CABT (1)	(1)	Green (2)	Green (2)	—	37 (1)	(1)	—	BY53 (3)	P (3)	
2	3/8 1/2	40024	W163(3)	2 AWG (1)	A2CAB (1)	U2CABT (1)	(1)	Pink (2)	Pink (2)	—	42H (2)	(1)	—	BY23 (3)	½ (3)	
		40025	W163(3)	2 AWG (1)	A2CAB (1)	U2CABT (1)	(1)	Pink (2)	Pink (2)	—	42H (2)	(1)	—	BY23 (3)	½ (3)	
1	3/8 1/2	40028	W163(3)	1 AWG (1)	A1CAR (1)	U1CART (1)	(1)	Gold (2)	Gold (2)	—	45 (1)	(1)	—	BY23 (3)	½ (3)	
		40029	W163(3)	1 AWG (1)	A1CAR (1)	U1CART (1)	(1)	Gold (2)	Gold (2)	—	45 (1)	(1)	—	BY23 (3)	½ (3)	
1/0	3/8	40032	W241(3)	1/0 (1)	A25AR (1)	U25ART (1)	(1)	Tan (2)	Tan (2)	—	50 (1)	(1)	—	BY25 (3)	5/8-1 (3)	
	1/2	40033	W241(3)	1/0 (1)	A25AR (1)	U25ART (1)	(1)	Tan (2)	Tan (2)	—	50 (1)	(1)	—	BY25 (3)	5/8-1 (3)	
	3/8	40132	W241(3)	1/0 (1)	A25AR (1)	U25ART (1)	(1)	Tan (2)	Tan (2)	—	50 (1)	(1)	—	BY25 (3)	5/8-1 (3)	
2/0	1/2	40037	BG (4)	2/0 (1)	A26AR (2)	U26ART (2)	(1)	Olive (2)	Olive (2)	—	54H (2)	(2)	—	BY31C (3)	5/8-1 (3)	
	1/2	40137	BG (4)	2/0 (1)	A26AR (2)	U26ART (2)	(1)	Olive (2)	Olive (2)	—	54H (2)	(2)	—	BY31C (3)	5/8-1 (3)	
3/0	1/2	40041	W166 (4)	3/0 (1)	A27AR (2)	U27ART (2)	(1)	Ruby (2)	Ruby (2)	—	60 (2)	(2)	—	—	737 (3)	
	1/2	40141	W166 (4)	3/0 (1)	A27AR (2)	U27ART (2)	(1)	Ruby (2)	Ruby (2)	—	60 (2)	(2)	—	—	737 (3)	
4/0	1/2	40045	W660 (4)	4/0 (2)	A28AR (2)	U28ART (2)	(1)	—	White (4)	—	66 (4)	(2)	—	BY35C (4)	840 (4)	
	5/8	40046	W660 (4)	4/0 (2)	A28AR (2)	U28ART (2)	(1)	—	White (4)	—	66 (4)	(2)	—	BY35C (4)	840 (4)	
	1/2	40145	W660 (4)	4/0 (2)	A28AR (2)	U28ART (2)	(1)	—	White (4)	—	66 (4)	(2)	—	BY35C (4)	840 (4)	
250	1/2	40049	W249 (3)	—	A29AR (2)	U29ART (2)	(1)	—	—	71H (4)	71H (2)	(3)	—	—	—	
	5/8	40050	W249 (3)	—	A29AR (2)	U29ART (2)	(1)	—	—	71H (4)	71H (2)	(3)	—	—	—	
	1/2	40149	W249 (3)	—	A29AR (2)	U29ART (2)	(1)	—	—	71H (4)	71H (2)	(3)	—	—	—	
300	1/2	40053	—	—	A30AR (2)	U30ART (2)	(1)	—	—	76H (4)	76 (2)	(3)	—	—	—	
	1/2	40153	—	—	A30AR (2)	U30ART (2)	(1)	—	—	76H (4)	76 (2)	(3)	—	—	—	
350	1/2	40056	—	—	—	U31ART (2)	(1)	—	—	87H (4)	87H (3)	(3)	—	—	—	
	5/8	40057	—	—	—	U31ART (2)	(1)	—	—	87H (4)	87H (3)	(3)	—	—	—	
	1/2	40156	—	—	—	U31ART (2)	(1)	—	—	87H (4)	87H (3)	(3)	—	—	—	
400	1/2	40160	—	—	—	U32ART (4)	(1)	—	—	94H (4)	94H (4)	—	(2)	—	—	
		40067	—	—	—	U34ART (4)	(1)	—	—	106H (4)	106H (3)	—	(2)	—	—	
500	5/8	40166	—	—	—	U34ART (4)	(1)	—	—	106H (4)	106H (3)	—	(2)	—	—	
		40170	—	—	—	U36ART (4)	(1)	—	—	—	115H (3)	—	(3)	—	—	
750	5/8	40073	—	—	—	U39ART (4)	(1)	—	—	—	125H (5)	—	(3)	—	—	
		40172	—	—	—	U39ART (4)	(1)	—	—	—	125H (5)	—	(3)	—	—	
1000	5/8	40079	—	—	—	S44ART (4)	(1)	—	—	—	140H (4)	—	(3)	—	—	
		40178	—	—	—	S44ART (4)	(1)	—	—	—	140H (4)	—	(3)	—	—	

* Y45 and Y46 accept all Y35 dies ("U" series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter.
** Anderson VC6-3, VC6-FT, VC8C and Burndy Y1000 require no die set.

Tooling Index

Lug and Crimping Information for Scotchlok™ Copper Lugs										
30014 thru 30045 One hole			31036 thru 31068 One hole - long barrel				31145 thru 31178 Two hole			
Cable Size AWG/kcmil	Stud Size (in.)	Scotchlok Copper Lug Number	CRIMPING TOOL-DIE SETS (AND NO. OF CRIMPS)							
			Bumdy Corporation				Thomas & Betts Corporation			Square D Co. Anderson Div.
			MD6	MY29	Y34A	Y35, Y39, Y45*, Y46*	TBM5	TBM8	TBM15	VC6-3, VC6-FT**
6	10 1/4 5/16	30014 30015 30016	—	6 AWG (1)	—	U5CRT (1)	Blue (1)	Blue (1)	—	Universal (1)
4	10 1/4 3/8	30018 30019 30021	W161 (1)	4 AWG (1)	A4CR (1)	U4CRT (1)	Grey (1)	Grey (1)	—	Universal (1)
2	1/4 5/16 3/8	30022 30023 30024	W162 (2)	2 AWG (1)	A2CR (1)	U2CRT (2)	Brown (1)	Brown (1)	33 (1)	Universal (2)
1	5/16 3/8	30027 30028	—	1 AWG (1)	A1CR (1)	U1CRT (2)	Green (1)	Green (1)	37 (1)	Universal (2)
1/0	5/16 3/8	30031 30032	W163 (2)	1/0 (1)	A25R (1)	U25RT (1)	Pink (2)	Pink (2)	42H (2)	Universal (1)
2/0	3/8 3/8	30036 31036	W241 (2) W241 (3)	2/0 (1) 2/0 (2)	A26R (1) A26R (2)	U26RT (2) U26RT (3)	Black (2) Black (3)	Black (2) Black (3)	45(1) 45 (2)	Universal (1) Universal (2)
3/0	1/2 1/2	30041 31041	W243 (2) W243 (3)	3/0 (1) 3/0 (2)	A27R (1) A27R (2)	U27RT (2) U27RT (3)	Orange (2) Orange (3)	Orange (2) Orange (3)	50 (1) 50 (2)	Universal (2) Universal (3)
4/0	1/2 1/2 1/2	30045 31045 31145	BG (3) BG (4) BG (4)	4/0 (1) 4/0 (2) 4/0 (2)	A28R (2)	U28RT (2) U28RT (3) U28RT (3)	Purple (2) Purple (3) Purple (3)	Purple (2) Purple (3) Purple (3)	54H (2) 54H (3) 54H (3)	Universal (2) Universal (3) Universal (3)
250	1/2 1/2	31049 31149	W166 (4)	250 (2)	A 29R (2)	U29RT (3)	Yellow (2)	Yellow (2)	62 (2)	Universal (2)
300	1/2 1/2	31053 31153	—	—	A30R (2)	U30RT (3)	—	White (3)	66 (3)	Universal (3)
350	1/2 1/2	31056 31156	—	—	A31R (2)	U31RT (3)	—	Red (4)	71H (4)	—
400	1/2 1/2	31060 31160	—	—	A32R (2)	U32RT (3)	—	Blue (4)	76H (4)	—
500	1/2 5/8 1/2	31066 31067 31166	—	—	A34R (2)	U34RT (3)	—	Brown (4)	87H (4)	—
600	1/2 1/2	31068 31168	—	—	—	U36RT (3)	—	Green (4)	94H (4)	—
750	1/2	31172	—	—	—	Y39, Y45, Y46: U39RT (5)	—	—	106H (4)	—
1000	1/2	31178	—	—	—	Y45: S44RT (6) Y46: P44RT (6)	—	—	125H (4)	—

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