

Quick Term II Silicone Rubber Termination Kits for Non-Shielded Cables 5 – 8 kV

Non-Shielded, Wet or Dry



Non-Shielded, Dry



5 and 8 kV Kit Selection Chart

Kit No.	Cable Insulation / Jacket O. D. Range	Conductor Size Range (AWG & kcmil)
5611A	0.31 – 0.72 in. (7,9 – 18,3 mm)	8 – 4
5612A	0.44 – 0.95 in. (11,2 – 24,1 mm)	2 – 2/0
5613A	0.56 – 1.18 in. (14,2 – 30,0 mm)	3/0 – 300
5614A	0.95 – 1.94 in. (24,1 – 49,3 mm)	350 – 1000

Table 1

Kit Contents:

- 3 Silicone Rubber Non-Shielded Terminations
- 3 Strips of Scotch™ 70 Silicone Rubber Tape
(Except 5614A Kit which contains 1 roll)
- 3 Cleaning Pad Kits
- 1 Instruction Sheet

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Technical Information: For use on Non-Shielded Cables Copper or Aluminum Conductors 5 and 8 kV Class Cable Size Range: 8 AWG – 1000 kcmil	ISSUE	DATE	REV.	CH.	3M Quick Term II Silicone Rubber Termination Kits for Non-Shielded Cables 5611A 5613A 5612A 5614A
	1	2/14/91	B		
	Not to scale		CH. L. C. Chor		
	DR. D. A. Tracy		APP. R. L. Goodman		
	2047MT-68				
3M Electrical Products Division Austin, Texas 78769-2963 Made in U.S. A.					

Instructions for Non-Shielded Cable – 5 and 8 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 insulation / jacket as shown in *FIGURE 1* and *TABLE 2*.

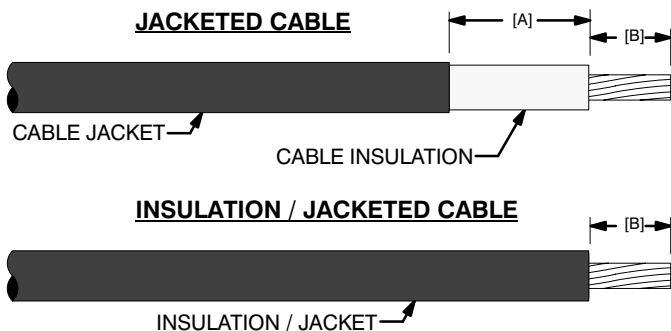


FIGURE 1

Kit No.	Dimension [A]	Dimension [B]
5611A	3" (76 mm)	Depth of Terminal Lug Barrel
5612A		
5613A		
5614A		

TABLE 2

3. Clean cable using standard practice (*FIGURE 2*):
 - a. Wipe cable insulation / jacket for 9" (229 mm) with Pad (provided).

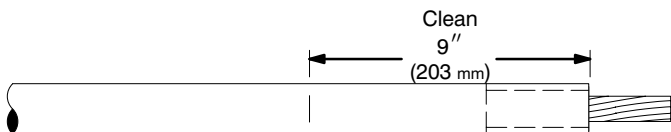


FIGURE 2

4. Place a marker tape 8 1/4" (210 mm) from end of cable insulation. (*FIGURE 3*)

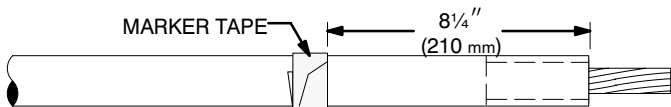


FIGURE 3

5. Slide termination onto cable, with loose core end trailing (toward cable end). (*FIGURE 4*)

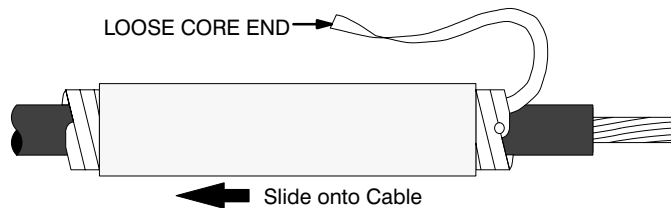


FIGURE 4

B. Install Lug

1. Install terminal lug according to manufacturer's direction.
2. See pages 3 and 4 if 3M lug is used.

C. Install Termination

1. Position termination, aligning base with previously applied marker tape. (*FIGURE 5*)
2. Remove termination core by unwinding counter-clockwise, starting with loose end. Make sure the termination body is butted up to the edge of the marker tape (*FIGURE 5*)

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

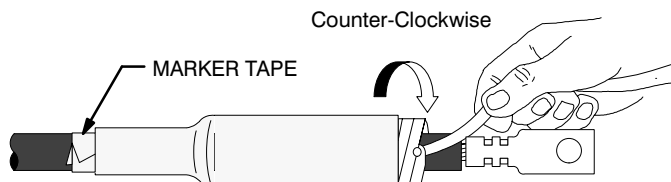


FIGURE 5

3. Apply top seal: Using Scotch™ 70 Tape provided, apply 1 half-lapped layer over at least 1/2" (13 mm) of lug barrel and onto the termination insulator for 1" (25 mm). (*FIGURE 5*)

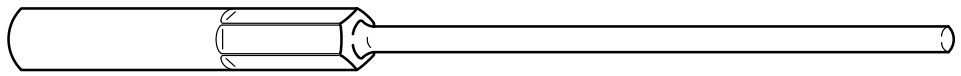
NOTE: For the 5614A termination, apply 2 half-lapped layers of Scotch™ 70 Tape.



FIGURE 6

4. Termination is ready for connecting to circuit.

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



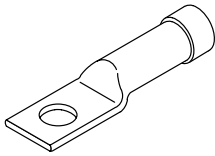
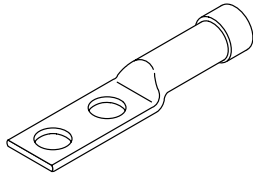
CRIMPING TABLE FOR 3M STEM TYPE CONNECTOR

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

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 (NO. OF CRIMPS)								Square D Co. Anderson Div. VC6-3, VC6-FT**
			Burndy Corporation				Thomas & Betts Corporation			Universal(1)	
			MD6	MY29	Y34A	Y35, Y39 Y45*, Y46*	TBM 5	TBM 8	TBM 15		
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)	A29R(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)	—	

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)												
			Burdny 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 40025	W163(3) W163(3)	2 AWG(1) 2 AWG(1)	A2CAB(1)) A2CAB(1)	U2CABT(1) U2CABT(1)	(1) (1)	Pink(2) Pink(2)	Pink(2) Pink(2)	—	42H(2) 42H(2)	(1) (1)	—	BY23(3) BY23(3)	1/2(3) 1/2(3)
1	3/8	40028 40029	W163(3) W163(3)	1 AWG(1) 1 AWG(1)	A1CAR(1) A1CAR(1)	U1CART(1) U1CART(1)	(1) (1)	Gold(2))Gold(2)	Gold(2))Gold(2)	—	45(1) 45(1)	(1) (1)	—	BY23(3) BY23(3)	1/2(3) 1/2(3)
1/0	3/8 8 1/2	40032 40033 40132	W241(3) W241(3) W241(3)	1/0 (1) 1/0 (1) 1/0 (1)	A25AR(1) A25AR(1) A25AR(1)	U25ART(1) U25ART(1) U25ART(1)	(1) (1) (1)	Tan(2) Tan(2) Tan(2)	Tan(2) Tan(2) Tan(2)	—	50(1) 50(1) 50(1)	(1) (1) (1)	—	BY25(3) BY25(3) BY25(3)	5/8-1(3) 5/8-1(3) 5/8-1(3)
2/0	1/2 3/8 1/2	40037 40137	BG(4) BG(4)	2/0(1) 2/0(1)	A26AR(2) A26AR(2)	U26ART(2) U26ART(2)	(1) (1)	Olive(2) Olive(2)	Olive(2) Olive(2)	—	54H(2) 54H(2)	(2) (2)	—	BY31C(3) BY31C(3)	5/8-1(3) 5/8-1(3)
3/0	1/2 8 1/2	40041 40141	W166(4) W166(4)	3/0(1) 3/0(1)	A27AR(2)) A27AR(2)	U27ART(2) U27ART(2)	(1) (1)	Ruby(2)) Ruby(2)	Ruby(2)) Ruby(2)	—	60(2) 60(2)	(2) (2)	—	—	737(3) 737(3)
4/0	1/2 5/8 1/2	40045 40046 40145	W660(4) W660(4) W660(4)	4/0(2) 4/0(2) 4/0(2)	A28AR(2) A28AR(2) A28AR(2)	U28ART(2) U28ART(2) U28ART(2)	(1) (1) (1)	— — —	White(4) White(4) White(4)	—	66(4) 66(4) 66(4)	(2) (2) (2)	—	BY35C(4) BY35C(4) BY35C(4)	840(4) 840(4) 840(4)
250	1/2 5/8 1/2	40049 40050 40149	W249(3) W249(3) W249(3)	— — —	A29AR(2) A29AR(2) A29AR(2)	U29ART(2) U29ART(2) U29ART(2)	(1) (1) (1)	— — —	— — —	71H(4) 71H(4) 71H(4)	71H(2) 71H(2) 71H(2)	(3) (3) (3)	—	—	—
300	1/2 1/2	40053 40153	— —	— —	A30AR(2) A30AR(2)	U30ART(2) U30ART(2)	(1) (1)	— —	— —	76H(4) 76H(4)	76(2) 76(2)	(3) (3)	—	—	—
350	1/2 5/8 1/2	40056 40057 40156	— — —	— — —	— — —	U31ART(2) U31ART(2) U31ART(2)	(1) (1) (1)	— — —	— — —	87H(4) 87H(4) 87H(4)	87H(3) 87H(3) 87H(3)	(3) (3) (3)	—	—	—
400	1/2	40160	—	—	—	U32ART(4)	(1)	—	—	94H(4)	94H(4)	—	(2)	—	—
500	5/8 1/2	40067 40166	— —	— —	— —	U34ART(4) U34ART(4)	(1) (1)	— —	— —	106H(4) 106H(4)	106H(3) 106H(3)	— —	(2) (2)	—	—
600	1/2	40170	—	—	—	U36ART(4)	(1)	—	—	—	115H(3)	—	(3)	—	—
750	5/8 1/2	40073 40172	— —	— —	— —	U39ART(4) U39ART(4)	(1) (1)	— —	— —	— —	125H(5) 125H(5)	— —	(3) (3)	—	—
1000	5/8 1/2	40079 40178	— —	— —	— —	S44ART(4) S44ART(4)	(1) (1)	— —	— —	— —	140H(4) 140H(4)	— —	(3) (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 Burdny Y1000 require no die set.

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