



Quick Term II Cold Shrink Silicone Rubber Termination

Instruction Sheet

IEEE Std. No. 48-1990

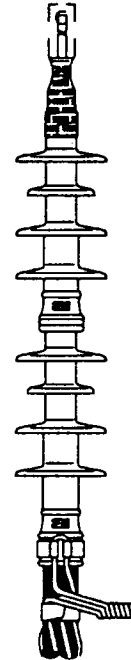
Class 1 Termination

34.5 kV Class

200 kV BIL

Kit Contents:

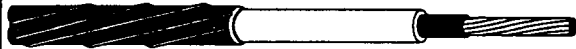
- 1 Cold Shrink Termination
- 2 Scotch 70 Silicone Rubber Tape Strips
- 1 Neutral Wire Ground Clip
- 1 Pack of Silicone Grease
- 1 Instruction Sheet



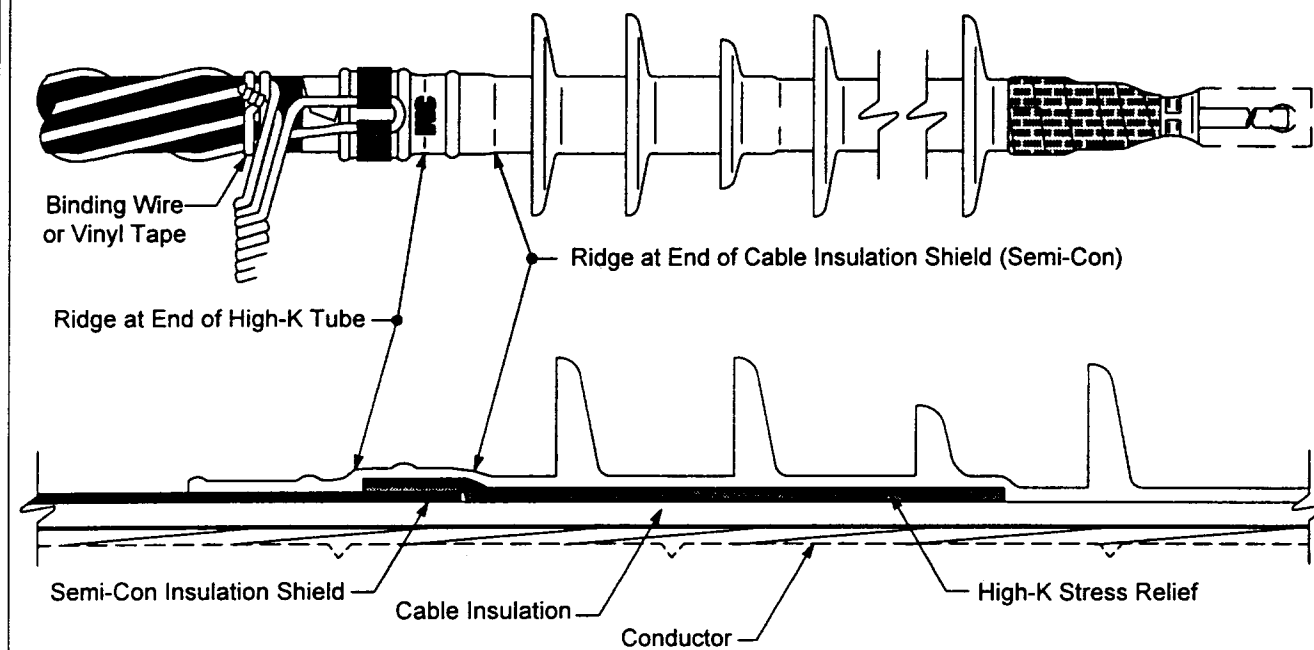
15 to 34.5 kV Kit Selection Chart

NOTE: Final determining factor is cable insulation diameter.

Kit Number	Cable Insulation O.D. Range	Conductor Size Range (AWG & kcmil)		
		15 kV	25/28 kV	34.5 kV
5604	0.637 - 1.12 in. (16 - 28 mm)	#4 - 4/0 (22 - 100)	#4 - 2/0 (22 - 60)	#2 - 1/0 (30 - 50)
5605	0.84 - 1.38 in. (21 - 35 mm)	250 - 500 (120 - 250)	1/0 - 350 (50 - 185)	#1 - 4/0 (50 - 100)
5606	1.08 - 1.80 in. (27 - 46 mm)	500 - 1250 (250 - 625)	350 - 750 (185 - 400)	4/0 - 500 (100 - 250)
5607	1.31 - 2.10 in. (33 - 53mm)	1000 - 1750 (500 - 850)	750 - 1500 (400 - 800)	500 - 1250 (250 - 625)
5608	1.80 - 2.75 in. (46 - 70 mm)	1500 - 2000 (750 - 1000)	1250 - 2000 (625 - 1000)	1000 - 2000 (500 - 1000)

 Concentric Neutral Cable	<h2>Quick Term II</h2> <p>Cold Shrink Silicone Rubber Termination Kits for use on Concentric Neutral (CN) Cable</p> <p>5604 5605 5606 5607 5608</p>	
Number of Pages: 6 Issue Date: 1/23/96	Scale: Not to Scale Issue: A	Drawing No. 78-8114-1040-2

Correct Installation of Termination

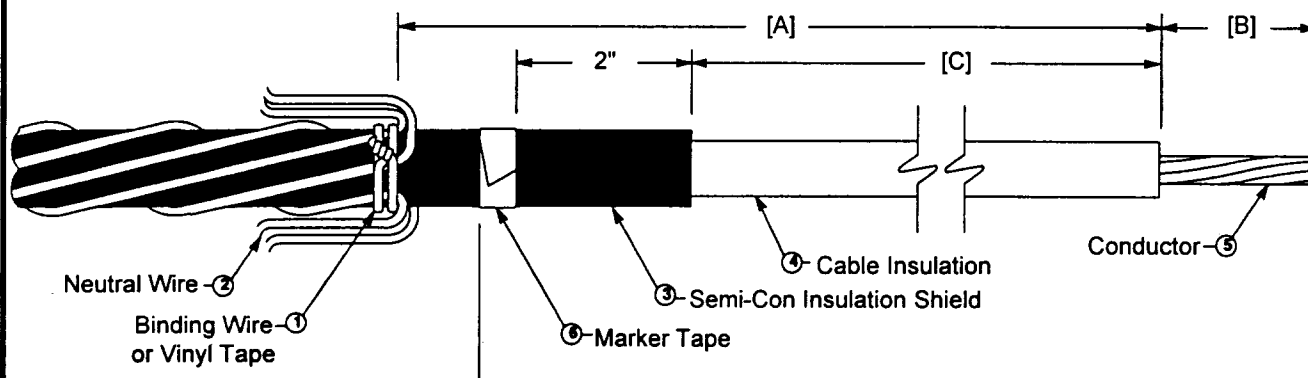


A. Prepare Cable

1. Check to be sure cable size fits within kit range as shown in *Table 1* (cover page).
2. Train cable into position and cut to length required for installation. Allow sufficient neutral wire length for neutral connection.
3. Bind neutral wires with a piece of wire or vinyl tape at dimension [A] + [B] *Table 2* ①. (See * below)
4. Bend the neutral wires over the binding wire or vinyl tape ②.
5. Remove cable semi-conductive insulation shield (semi-con) for a distance of [C] + [B] *Table 2* ③. (See * below)
6. Remove cable insulation ④ from end of conductor for a distance of [B] *Table 2* ⑤.
7. Place a marker tape 2" back from semi-con cut edge as shown ⑥.

* add 1" to [A] and [C] for short lug barrels (1" or less).

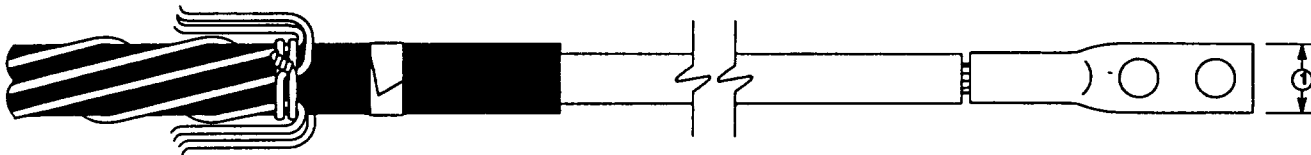
Dimension	Kit No.				
	5604	5605	5606	5607	5608
[A]	15 3/4"	15 3/4"	17 1/4"	17 1/4"	17 3/4"
[B]	Depth of Terminal Lug Barrel				
[C]	12 1/4"	12 1/4"	13 3/4"	13 3/4"	14 1/4"



DO NOT LOOP NEUTRAL WIRES BEYOND MARKER TAPE

B. Install Lug or Connector

1. These units were designed to fit over Scotchlok and 3M copper and aluminum lugs. If other lugs ① will not fit through the core of the termination, slide termination on cable before installing lug. **Do not remove core at this time.**



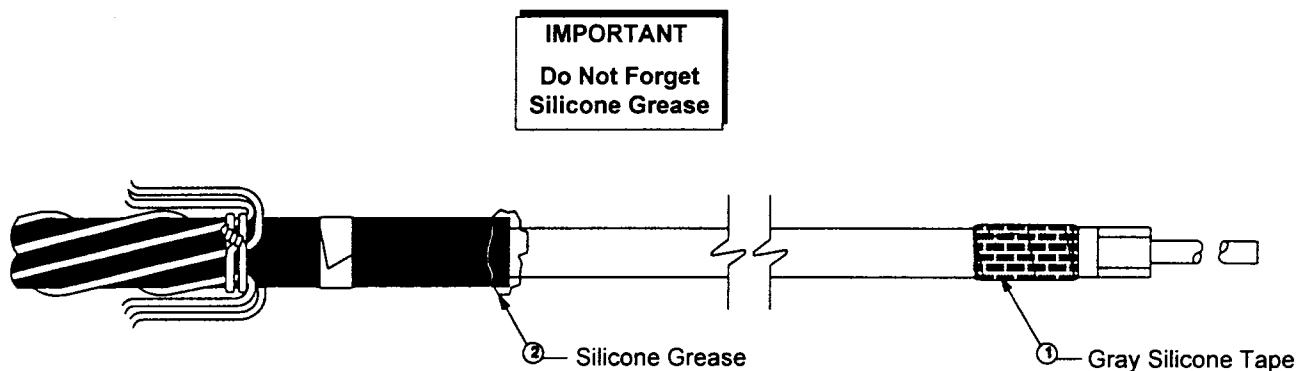
2. When using 3M type lugs or connectors, refer to the tooling index (*Pages 5 & 6*) for crimping information.
3. Position lug or connector and crimp according to manufacturer's directions. **Remove excess contact aid and sharp crimp flash.**

C. Clean Cable Insulation and Lug Barrel Using Standard Practice

1. Wipe the cable insulation with an approved solvent. **Do not allow solvent to touch semi-con insulation shield!**
2. If abrasive must be used:
 - a. Use on insulation only. **Do not use abrasive on semi-con insulation shield!**
 - b. Use only aluminum oxide abrasive; grit 120 or finer.
 - c. Be careful not to reduce the cable insulation diameter below that allowed by the kit.

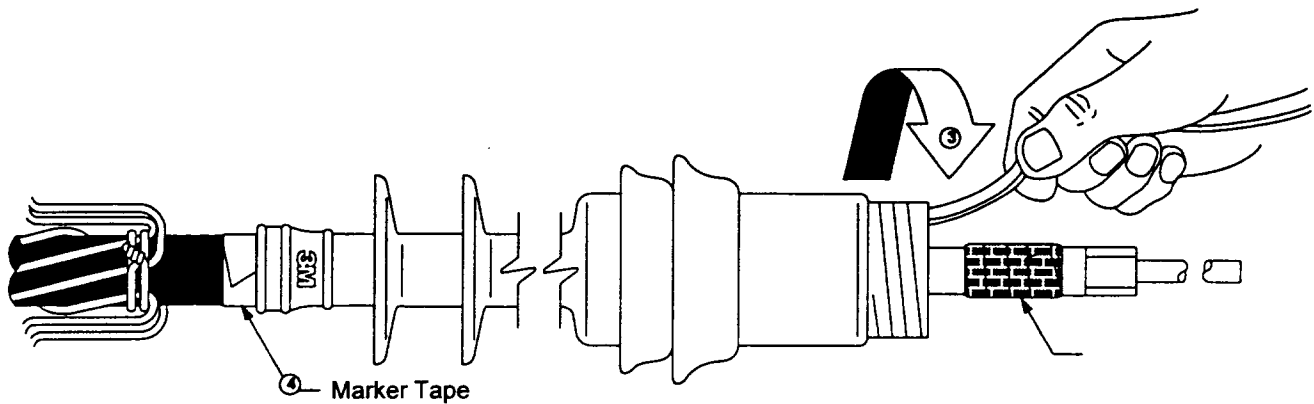
D. Install Termination

1. **Important:** A track resistant moisture seal must be made between the silicone termination insulator and connector using one of two gray Scotch™ 70 Silicone Rubber Electrical Tape strips (contained in kit) ①.
If the lug barrel is smaller than the cable insulation, wrap the bottom end of the lug with gray silicone tape to the approximate diameter of the cable insulation ①.
2. Cover the edge of the semi-con insulation shield with a liberal coating of silicone grease ②. **On this product the silicone grease does not serve as a lubricant. It must be used to fill the step at the semi-con cutoff.**



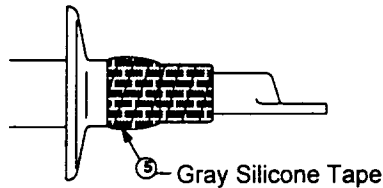
D. Install Termination (continued)

- Slide the termination body onto the cable and remove core. Pull while unwinding, counter-clockwise, starting with the loose end ③. Make sure the termination body (not the core) is butted up to the edge of the marker tape ④.
Tip: An occasional tug of the strand while unwinding will aid in core removal.



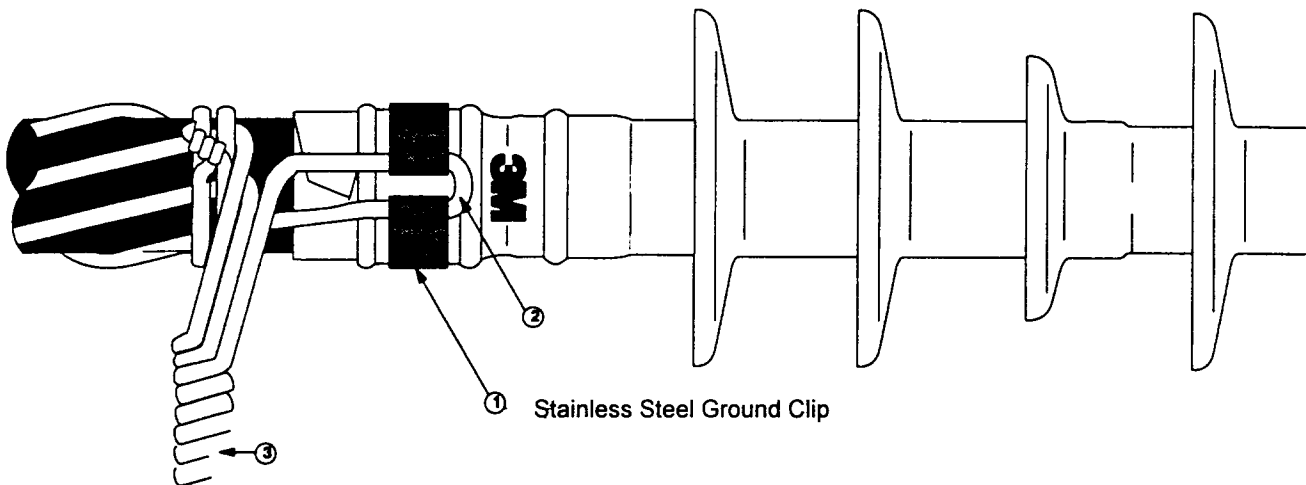
The material being removed at this step is polypropylene and can be recycled with other ♻️ wastes.
PP

- Complete the lug seal using the second gray silicone tape strip. Overlap insulator by one inch and extend tape wrapping onto lug barrel as shown ⑤.



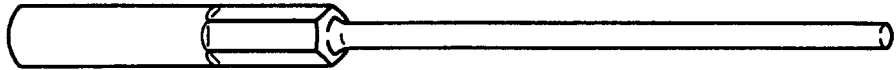
E. Grounding

- Snap stainless steel grounding clip onto base of termination ①. Clip must be applied to the base of the termination, between the bottom two rings.
- Loop one neutral strand around ground clip ends, pulling clip tight onto the termination ②.
- Bundle all neutral wires together and connect to ground ③.



Tooling Index

Crimping Information for 3M Stem Connectors Copper/Aluminum

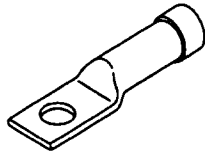


CRIMPING TABLE FOR 3M STEM TYPE CONNECTOR

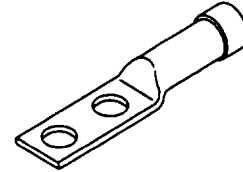
Conductor Size	3M Connector No.	Recommended Crimping Tools				
		Manufacturer	Mech. Tool	Die (No. Crimps)	Hydraulic Tool	Die (No. Crimps)
#2 Sol. #1, #2 1/0	SC0002 SC0001 SC0010	Burdly	MD6	BG(4), W243(4)	Y35, Y39, Y45**	U25ART(2), U243(2)
		Kearny	0-51, 0-52	5/8-1(4)	12, 20, 40, Ton	5/8-1(4)
		T & B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

Lug and Crimping Information for Scotchlok™ Copper/Aluminum Lugs

40016 thru 40079
One hole



40132 thru 40178
Two hole



CRIMPING TOOL-DIE SETS (NO. OF CRIMPS)

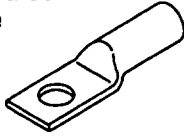
Cable Size AWG/ kcmil	Stud Size (In.)	Scotchlok™ Lug Number	Burdly Corporation													Thomas & Betts Corporation		Square D Co. Anderson Div.		ITT Black-burn Co.	Kearny Nat'l Div.
			Burdly Corporation					Thomas & Betts Corporation					Square D Co. Anderson Div.		ITT Black-burn Co.	Kearny Nat'l 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)	1/2(3)						
		40025	W163(3)	2 AWG(1)	A2CAB(1)	U2CABT(1)	(1)	Pink(2)	Pink(2)	—	42H(2)	(1)	—	BY23(3)	1/2(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)	1/2(3)						
		40029	W163(3)	1 AWG(1)	A1CAR(1)	U1CART(1)	(1)	Gold(2)	Gold(2)	—	45(1)	(1)	—	BY23(3)	1/2(3)						
1/0	3/8 1/2 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)						
		40033	W241(3)	1/0 (1)	A25AR(1)	U25ART(1)	(1)	Tan(2)	Tan(2)	—	50(1)	(1)	—	BY25(3)	5/8-1(3)						
		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 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)						
		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 1/2	40041	W166(4)	3/0(1)	A27AR(2)	U27ART(2)	(1)	Ruby(2)	Ruby(2)	—	60(2)	(2)	—	—	737(3)						
		40141	W166(4)	3/0(1)	A27AR(2)	U27ART(2)	(1)	Ruby(2)	Ruby(2)	—	60(2)	(2)	—	—	737(3)						
4/0	1/2 5/8 1/2	40045	W660(4)	4/0(2)	A28AR(2)	U28ART(2)	(1)	—	White(4)	—	66(4)	(2)	—	BY35C(4)	840(4)						
		40046	W660(4)	4/0(2)	A28AR(2)	U28ART(2)	(1)	—	White(4)	—	66(4)	(2)	—	BY35C(4)	840(4)						
		40145	W660(4)	4/0(2)	A28AR(2)	U28ART(2)	(1)	—	White(4)	—	66(4)	(2)	—	BY35C(4)	840(4)						
250	1/2 5/8 1/2	40049	W249(3)	—	A29AR(2)	U29ART(2)	(1)	—	—	71H(4)	71H(2)	(3)	—	—	—						
		40050	W249(3)	—	A29AR(2)	U29ART(2)	(1)	—	—	71H(4)	71H(2)	(3)	—	—	—						
		40149	W249(3)	—	A29AR(2)	U29ART(2)	(1)	—	—	71H(4)	71H(2)	(3)	—	—	—						
300	1/2 1/2	40053	—	—	A30AR(2)	U30ART(2)	(1)	—	—	76H(4)	76(2)	(3)	—	—	—						
		40153	—	—	A30AR(2)	U30ART(2)	(1)	—	—	76H(4)	76(2)	(3)	—	—	—						
350	1/2 5/8 1/2	40056	—	—	—	U31ART(2)	(1)	—	—	87H(4)	87H(3)	(3)	—	—	—						
		40057	—	—	—	U31ART(2)	(1)	—	—	87H(4)	87H(3)	(3)	—	—	—						
		40156	—	—	—	U31ART(2)	(1)	—	—	87H(4)	87H(3)	(3)	—	—	—						
400	1/2	40160	—	—	—	U32ART(4)	(1)	—	—	94H(4)	94H(4)	—	(2)	—	—						
500	5/8 1/2	40067	—	—	—	U34ART(4)	(1)	—	—	106H(4)	106H(3)	—	(2)	—	—						
		40166	—	—	—	U34ART(4)	(1)	—	—	106H(4)	106H(3)	—	(2)	—	—						
600	1/2	40170	—	—	—	U36ART(4)	(1)	—	—	—	115H(3)	—	(3)	—	—						
750	5/8 1/2	40073	—	—	—	U38ART(4)	(1)	—	—	—	125H(5)	—	(3)	—	—						
		40172	—	—	—	U38ART(4)	(1)	—	—	—	125H(5)	—	(3)	—	—						
1000	5/8 1/2	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.

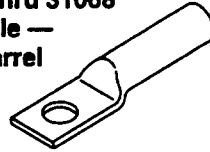
** Anderson VC6-3, VC6-FT, VC8C and Burdly Y1000 require no die set.

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)							
			Burdyn Corporation				Thomas & Betts Corporation			Square D Co. Anderson Div.
			MD6	MY29	Y34A	Y35, Y39 Y45*, Y46*	TBM 5	TBM 8	TBM 15	VCS-3, VCS-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)	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)	—

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78-8114-1040-2

**STRUCTURAL SPECIFICATION FOR
PRINTED INSTRUCTION SHEETS FOR ELPD**

78#: 78-8114-1040-2
Issue #: (A)
Date: 1/31/96

SCOPE: THIS SPECIFICATION ADDRESSES THE STRUCTURAL OPTIONS FOR THE PRINTING OF INSTRUCTION SHEETS. GRAPHIC ART, WITH A CONTROL NUMBER (78-XXXX-XXXX-X), MUST BE ATTACHED TO THIS STRUCTURAL SPECIFICATION IN ORDER TO CREATE A MATERIAL PURCHASE SPECIFICATION.

MATERIAL: 60# OFFSET

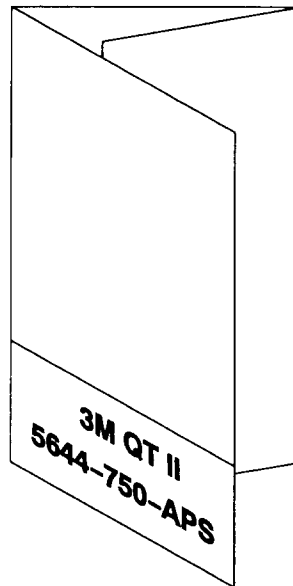
COLOR: WHITE

INK COLOR: BLACK

ADDITIONAL INFORMATION:

1. VENDOR TO MAKE PART NO. 78-8114-1040-2 PER STYLE BELOW.
2. VENDOR MAY SUBSTITUTE GLUE WHEEL STITCHING IS CALLED OUT IF IT REDUCES THE COST TO 3M.

(5 or 6 page, gate folded)



25 1/2" x 11" sheet, printed both sides. Print one side, left to right, with pages 5, 6 and title page. Opposite side page 2, 3 and 4. Gate fold to 8 1/2" x 11" with title page facing out. Then fold to 4 1/4" x 11" with title block facing out.