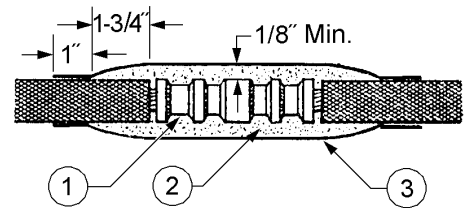


CONSTRUCTION GUIDELINE

SPLICES AND TAPS, 600 VOLT, ALUMINUM TO ALUMINUM, ALUMINUM TO COPPER, COPPER TO COPPER

1. Straight Splice Copper to Copper

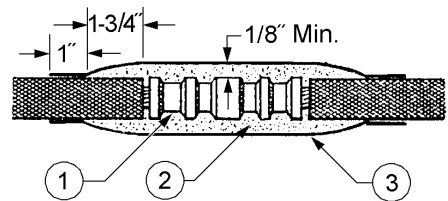
Stock No.	Conductor, AWG/kcmil	Tool and Die	
		MD-6	Y35/39
677354	#6	-	U5CRT(2)
677355	#4	W161(2)	U4CRT(2)
677357	#2	W162(2)	U2CRT(2)
677358	#1	-	U1CRT(2)
677359	#1/0	W163(2)	U25CRT(2)
677360	#2/0	W241(2)	U26CRT(2)
677361	#3/0	W243(2)	U27CRT(2)
677362	#4/0	W-BG(2)	U28CRT(2)
677363	250	-	U29CRT(2)
677364	300	-	U30CRT(2)
677365	350	-	U31CRT(2)
677367	500	-	U34CRT(2)
677371	750	Y46*	P39CRT(2)*



* For connectors installed with Burndy type compression tools.

2. Straight Splice Aluminum to Aluminum

Stock No.	Conductor, AWG/kcmil	Tool and Die	
		MD-6	Y35/39
650611	500	U34ART(2)	U34ART(2)
650613	750	-	P39ART(2)



3. Material List

Item	Description	Stock Number
1	CONNECTOR, aluminum compression (see connector details)	-
2	SEALANT, insulating	736470
3	TAPE, plastic, electrical	736655
4	COMPOUND, oxide inhibiting	726180
5	CLEANER, electrical insulation	726157
6	HEAT SHRINKABLE SPLICE COVER	See below

* Burndy: These specifications are for connectors that are installed with Burndy type compression tools - to be used for contractors who do not have Anderson compression tools.

STANDARDS COORDINATOR

STANDARDS SUPERVISOR

UNIT DIRECTOR

Robin Byun

Robin Byun

John Shipek

John Shipek

Darnell Cola

Darnell Cola

SEATTLE CITY LIGHT
CONSTRUCTION GUIDELINE

Splices And Taps, 600 Volt, Aluminum To Aluminum,
 Aluminum To Copper, Copper To Copper

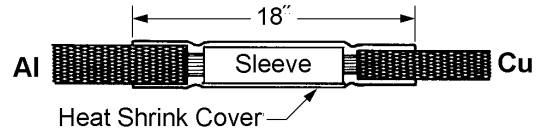
STANDARD NUMBER: **U5-1.02/NCB-80**

PAGE: 2 of 2
 SUPERSEDING: January 25, 2008
 EFFECTIVE DATE: October 29, 2014

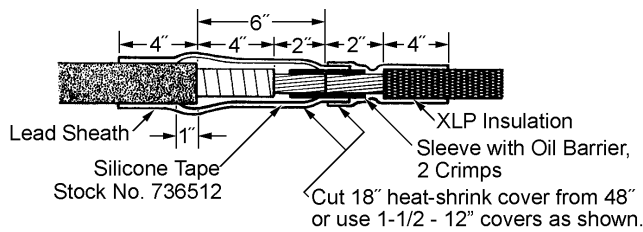
4. Aluminum to Copper Reducing Splice

750 aluminum to 500 copper: Cut 18" heat shrink cover from 48" length or use 1-1/2" – 12" covers.

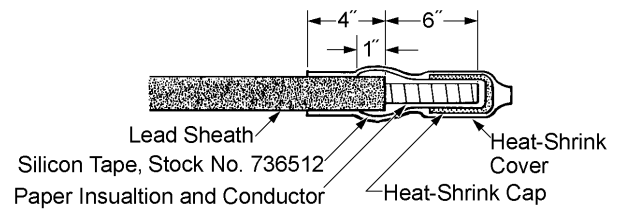
Stock No.	Al	Cu
650591	500	350
650593	750	500



5. Straight Splice, Lead to XLP Cable



6. Lead Secondary Deadend



7. Heat-Shrink Tubing

Cable Size, AWG / kcmil	Connectors		Tubing			
	Cu	Al	ID (in)			
			Min. Expanded	Max. Recovered	Length (in)	Stock No.
1/0-4/0	0.51 – 0.69	0.906	1.10	0.37	9	737450
250-500	0.75 – 1.06	1.125 – 1.32	1.50	0.50	12	737452
750	–	1.59	2.00	0.75	12	737455

8. Splicing Procedure

- A** Remove insulation as required. Do not nick the strands.
- B** Aluminum Conductors: Apply a small amount of oxide inhibiting compound (Item 4) to the bare strands and then brush with a wire brush parallel with the strands.
- C** Attach the compression connector using recommended tools and dies. After compressing, clean connector and adjacent insulation with electrical insulation cleaner (Item 5).
- D** Apply insulating sealant (Item 2), press firmly and form as shown in the illustrations. (Not needed for straight splices with heat-shrink).
- E** Apply 3 half-lapped layers of plastic insulating tape (Item 3). Do not stretch while applying. Use same tension used to remove the tape from the roll. For straight splices, heat shrink tubing may be used.