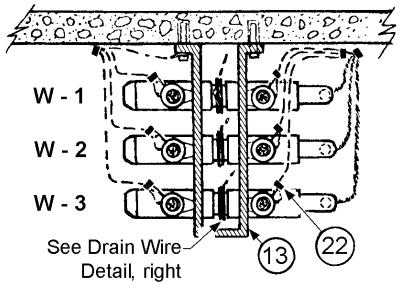
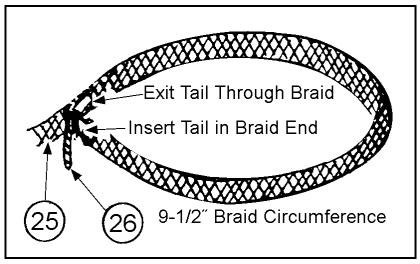
600 AMP PRIMARY CONNECTORS AND CABLE MOUNTING METHODS

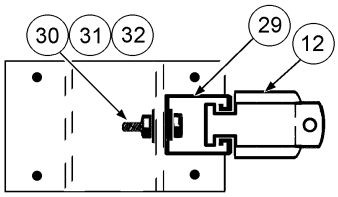
Method 1 for Securing Cable and Connectors



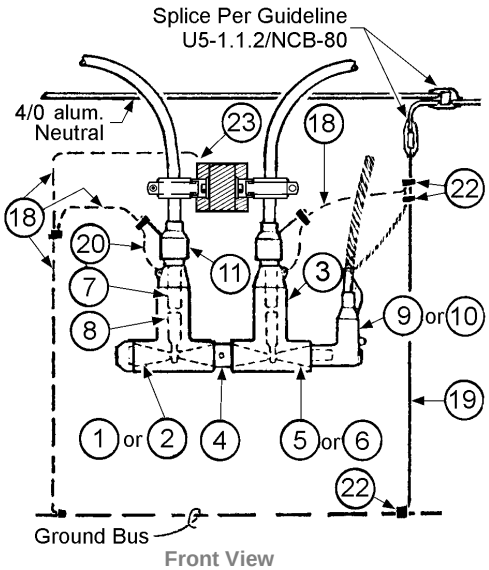
Top View



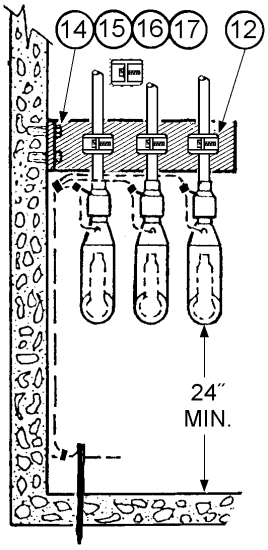
Drain Wire Detail



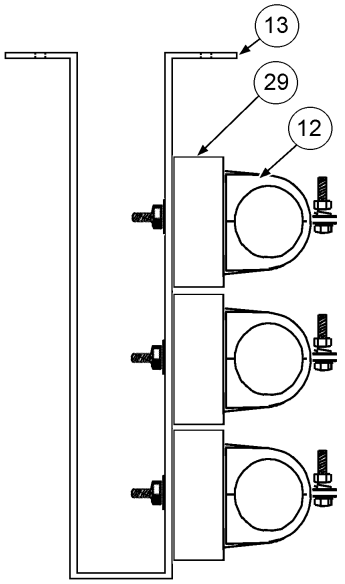
End View



Front View



Side View



Top View

Figure 1 – Method 1 for Securing Cable Typical L7 Configuration

Figure 2 – Method 1, Detail

For securing cable and connectors using **Method 1** (shown above), the cable, mounted in a cable support assembly (Item 12) with the attached adapter (Item 29), are screwed to a “U” shaped bracket (Item 13) that is secured to the wall. See figure 2, above. To attach the adapter to the “U” shaped bracket use a screw, washers and a nut (Items 14, 15, 16, and 17).

For the Material List for 125 BIL see pages 3 and 5. For the Material List for 150 BIL see pages 4 and 5.

Method 2 for Securing Cable and Connectors

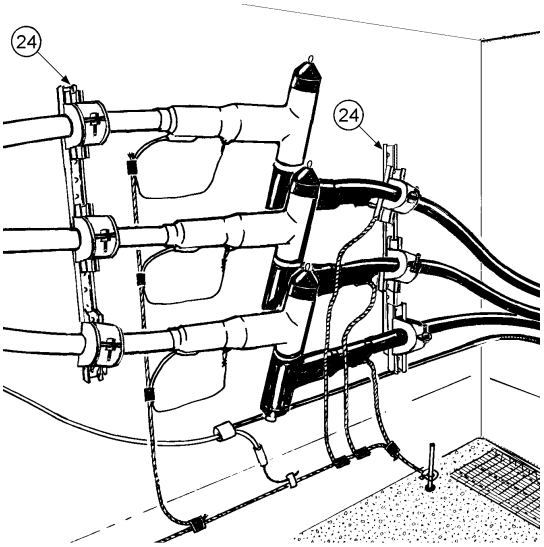


Figure 4 – Method 2 for Securing Cable

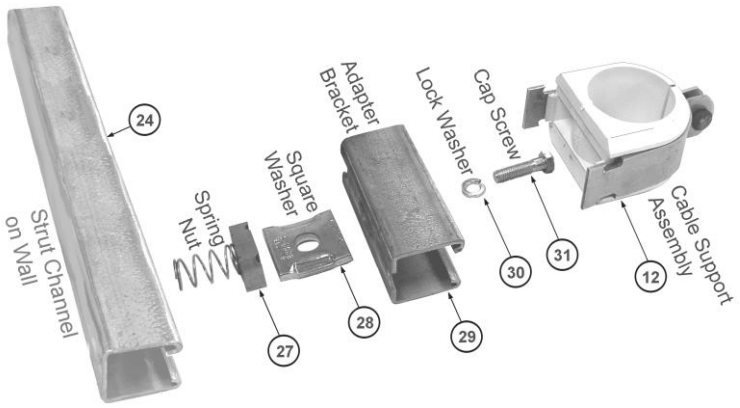
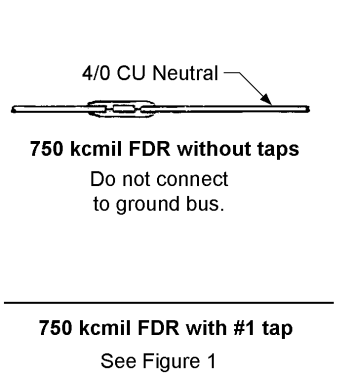
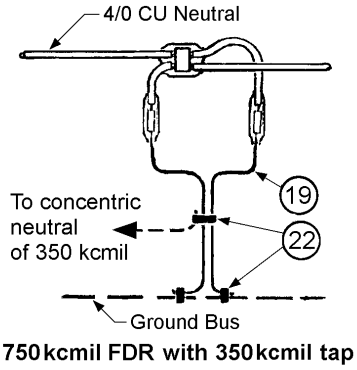


Figure 3 – Method 2, Detail

For securing cable and connectors using **Method 2** (shown above), the cable, mounted in a cable support assembly (Item 12) with the attached adapter (Item 29), are screwed to channel rack (Item 24) that is secured to the wall. See figure 3, above. It is optional to use the adapter bracket (Item 29). To attach the adapter to the channel rack use a cap screw, lock washer, square washer, and spring nut (Items 31, 30, 28, and 27). See figures 2 and 3, above.





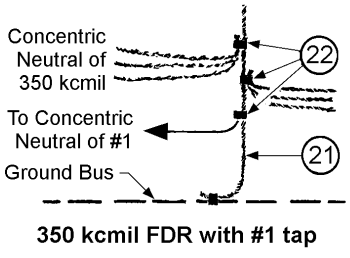


Figure 5 – Other Neutral Connections

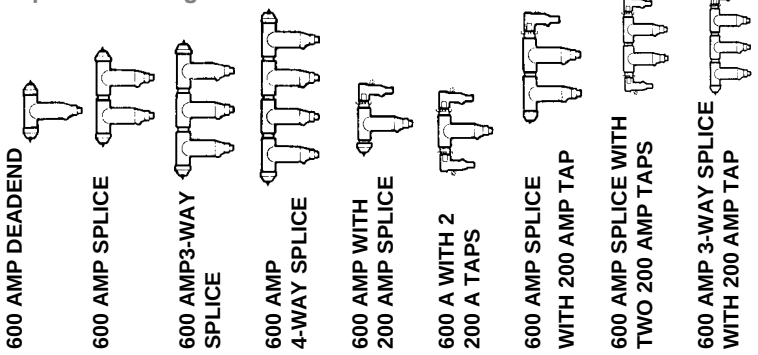
Notes:

1. Lubricate parts slightly with silicon grease provided in kit. No substitutions.
2. Torque connector plugs and tap plugs using Elastimold Spanner Wrench #600 SW (Stock No. 686358) between 44 and 51 ft. - lbs.
3. Torque insulating or deadend plugs using 1″ socket between 50 and 60 ft. - lbs.

Reference: Construction Guideline U5-1.02/NCB-80, Splices and Taps, 600 Volt

Material List, 125 BIL only

Splice Configuration



Item	Part Description	Stock No.	Quantities: Parts per Phase 600 amp Primary Connectors								
			L1	L2	L3	L4	L5	L6	L7	L8	L9
1	Basic Insulated Plug	686356	1	1	1	1	1☼	0	1☼	0	1☼
2	Deadend Plug	686357	1	1	1	1	1☼	0	1☼	0	1☼
3	Shielded Elbow	686350	1	2	3	4	1	1	2	2	3
4	Connector Plug	686353	0	1	2	3	0	0	1	1	2
5	Reducing Tap Plug	686354	0	0	0	0	1☼	1	1☼	1	1☼
6	Reducing Tap Plug	686355	0	0	0	0	1☼	1	1☼	1	1☼
7	Cable Adapter ◊										
	#1	686370	1	2	3	4	1	1	2	2	3
	350 kcmil compressed	686352	1	2	3	4	1	1	2	2	3
	350 kcmil stranded	686352	1	2	3	4	1	1	2	2	3
	750 kcmil compressed	686348	1	2	3	4	1	1	2	2	3
	750 kcmil stranded	686360	1	2	3	4	1	1	2	2	3
8	Spade Contact ◊										
	#1	686375	1	2	3	4	1	1	2	2	3
	350 kcmil compressed	686366	1	2	3	4	1	1	2	2	3
	350 kcmil stranded	686351	1	2	3	4	1	1	2	2	3
	750 kcmil compressed	686349	1	2	3	4	1	1	2	2	3
	750 kcmil stranded	686359	1	2	3	4	1	1	2	2	3
9	Elbow, 200 amp	686416	0	0	0	0	1£	2£	1£	2£	1£
10	Deadend Receptacle	686411	0	0	0	0	1£	2£	1£	2£	1£
11	Grounding Device	▲	1	2	3	4	1	1	2	2	3
12											
	350 kcmil Al	011962	1	2	3	4	1	1	2	2	3
	500 kcmil Cu	011963	1	2	3	4	1	1	2	2	3
	750 kcmil Cu	011964	1	2	3	4	1	1	2	2	3
	1000 kcmil Cu	011965	1	2	3	4	1	1	2	2	3

☼ If female threads on plug, then use tap with male threads.

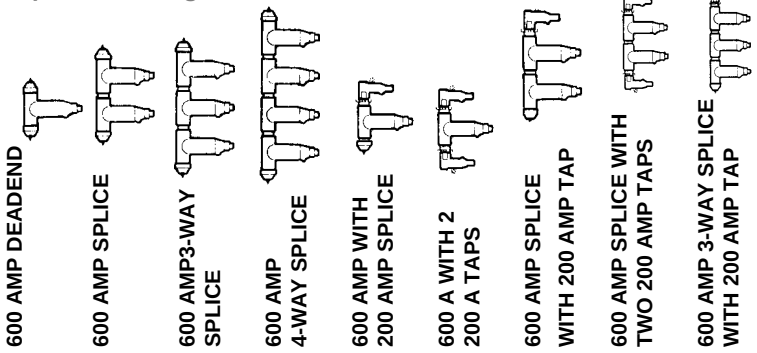
◊ Size for proper cables. See construction plans.

£ Deadend may be used in place of elbow. See construction plans.

▲ See Table 1 in U5-14/NSP-310 or 70-13.

Material List continued, 150 BIL only

Splice Configuration



Item	Part Description	Stock No.	Quantities: Parts per Phase 600 amp Primary Connectors								
			L1	L2	L3	L4	L5	L6	L7	L8	L9
1	Basic Insulated Plug	687270	1	1	1	1	1☼	0	1☼	0	1☼
2	Deadend Plug	687280	1	1	1	1	1☼	0	1☼	0	1☼
3	Shielded Elbow	687060	1	2	3	4	1	1	2	2	3
4	Connector Plug	687260	0	1	2	3	0	0	1	1	2
6	Reducing Tap Plug	750 RTP	0	0	0	0	1☼	1	1☼	1	1☼
7	Cable Adapter ◊										
	#1	687019	1	2	3	4	1	1	2	2	3
	350 kcmil compressed	687020	1	2	3	4	1	1	2	2	3
	350 kcmil stranded	687020	1	2	3	4	1	1	2	2	3
	750 kcmil compressed	687028	1	2	3	4	1	1	2	2	3
	750 kcmil stranded	687030	1	2	3	4	1	1	2	2	3
8	Spade Contact ◊										
	#1	686375	1	2	3	4	1	1	2	2	3
	350 kcmil compressed	686366	1	2	3	4	1	1	2	2	3
	350 kcmil stranded	686351	1	2	3	4	1	1	2	2	3
	750 kcmil compressed	686349	1	2	3	4	1	1	2	2	3
	750 kcmil stranded	686359	1	2	3	4	1	1	2	2	3
9	Elbow, 200 amp	687345	0	0	0	0	1£	2£	1£	2£	1£
10	Deadend Receptacle	687340	0	0	0	0	1£	2£	1£	2£	1£
11	Grounding Device	686512	1	2	3	4	1	1	2	2	3
25	Braid, Cu, 1/4″	618614	2 feet, estimated, per support bracket, all connectors								
26	Tie, 0.31″ x 14″	735811E	1 per support bracket, all connectors								

☼ If female threads on plug, then use tap with male threads.

◊ Size for proper cables. See construction plans.

£ Deadend may be used in place of elbow. See construction plans.

Material List continued, 125 BIL and 150 BIL

Item	Part Description	Stock No.	Quantities: Parts per Phase 600 amp, Primary Connectors L1	L2	L3	L4	L5	L6	L7	L8	L9
Method 1 and 2 for Securing Cable											
12	Thermoplastic Cable Support Assembly 										
	350 kcmil Al	011962	1	2	3	4	1	1	2	2	3
	500 kcmil Cu	011963	1	2	3	4	1	1	2	2	3
	750 kcmil Cu	011964	1	2	3	4	1	1	2	2	3
	1000 kcmil Cu	011965	1	2	3	4	1	1	2	2	3
Method 1 for Securing Cable											
13	Support bracket (quantities are total per installation) 	720627	1	1	2	2	1	1	1	1	2
14	Anchor screw, light duty, **or**	780078 E	4 per support bracket, all connectors								
	Spring nut	723607 E	4 per support bracket, all connectors								
15	Screw, hex, galvanized, 1/2″ x 1-1/2″	784827 E	4 per support bracket, all connectors								
16	Washer, cut, galvanized, 1/2″	585025 E	4 per support bracket, all connectors								
17	Washer, steel, lock, split, zinc-plated, 1/2″	584255 E	4 per support bracket, all connectors								
29	Adapter bracket, 4″	012465	1	2	3	4	1	1	2	2	3
30	Washer, steel, lock, split, zinc-plated, 1/2″	584255 E	1	2	3	4	1	1	2	2	3
31	Cap screw, steel, hex head, zinc-plated, 1/2″ x 1″	784825 E	1	2	3	4	1	1	2	2	3
32	Nut, steel, zinc-plated, 1/2″-13	782986	1	2	3	4	1	1	2	2	3
Method 2 for Securing Cable											
24	Channel rack, support, 1-5/8″ x 1-5/8″	723510	as required, all connectors								
27[a]	Nut, 1/2″, with long spring for 1-5/8″ x 1-5/8″ strut channel	723606 E	1	2	3	4	1	1	2	2	3
28[a]	Washer, flat, square, with tabs, and 9/16″ hole	720658	1	2	3	4	1	1	2	2	3
29[a]	Adapter bracket, 4″	012465	1	2	3	4	1	1	2	2	3
30[a]	Washer, steel, lock, split, zinc-plated, 1/2″	584255 E	1	2	3	4	1	1	2	2	3
31[a]	Cap screw, steel, hex head, zinc-plated, 1/2″ x 1″	784825 E	1	2	3	4	1	1	2	2	3
Additional Common Items											
18	Wire #2 bare, stranded, Cu	610434	as required, all connectors								
19	Wire #2 bare, solid, Cu	610006	as required, all connectors								
20	Wire #14 TW white, solid, Cu	612217	as required, all connectors								
21	Wire 4/0 bare, stranded, Cu	610414	as required, all connectors								
22	Connector, compression Cu	677325 E thru 677333	as required, all connectors								
23	Lug, terminal, compression, Cu, #2, drill for 1/2″ bolt	677071 E	1 per support bracket, all connectors								

Notes:
a. It is optional to use the adapter bracket (Item 29). Use Items 27, 28, 30, and 31 only if Item 29 is used.