

Legacy Daisy-Chain Street Lighting Services up to 50 A from URD and UD Electrical Installation

ES53 S4-01

Application

This standard provides electrical installation guidance for legacy daisy-chain street lighting services up to 50 A fed from underground distribution and underground residential distribution.

Revision Notes

Changed standard title. Added *Application* and *Revision Notes*. Updated *References*. Removed obsolete reference from note 3a. Updated references in figures. Changes are marked by green vertical revision lines in the left margin. This revision released concurrently with Standards and Equipment Advisory Information Bulletin 2026-013 *Revised ES53 and ES54 S4-01 Street Lighting Services*.

References

BC Hydro Distribution Standards

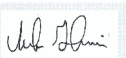
ES53 N2-01	Structures on Wood Poles Cable Attachment Methods
ES53 N2-03	Cable and Conductor Data, New Construction
ES53 N2-04	Services General Notes, Service Ducts and Trenches
ES54 S4-01	Unmetered Street Lighting Services Public Property Installation

Other BC Hydro Documents

Distribution Instruction L15-2	Ornamental Street Lighting (Customer Owned)
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Items Required

Item	Description	Material no.
1	#8 AWG, 1/C, copper 90°C insulation rating	380-3950
2	#2 solid copper, weather resistant	380-0216
3	Compression tap connector	380-0455
4	Lug, single hole, #2	380-1840
5	Lug, slotted, #2	380-1823
6	Mastic tape	394-0296
7	1/2" – 13 UNC capscrew, 1 1/2" long zinc plated steel	100-6626
8	1/2" flat washer, zinc plated steel, for item 7	102-4136
9	1/2" disc spring washer, stainless steel, for item 7	102-4131
10	1/2" – 13 UNC nut, zinc plated steel, for item 7	102-1225

Designed: M. Kelvin, P. Eng		Professional of Record  2026-05-29 Permit to Practice 1002449	Legacy Daisy-Chain Street Lighting Services up to 50 A from URD and UD Electrical Installation	
Checked: M. Kelvin, P. Eng				
Reviewed: M. Stevens, P. Eng			DISTRIBUTION STANDARDS 	ES53 S4-01 R6
Approved: M. Stevens, P. Eng				
		Issued: 2026-05-29 Effective: 2026-07-01		

Notes

1. The customer shall supply hardware necessary for connection at the service entrance equipment at the pole base. BC Hydro shall supply hardware necessary for making the connection in the service box or transformer.
2. Maximum service ampacity at nominal voltage shall be 50 A for all supply voltages (120 V, 120/240 V, 347 V, and 347/600 V).
3. Installation:
 - a. Conductor supplied by BC Hydro or the municipality shall be colour coded with PVC tape.
 - b. BC Hydro shall make the connection in the service box or transformer in accordance with this standard. See ES53 sections B and F for more details of individual equipment.
 - c. BC Hydro shall make the connection at the pole base. The termination method varies with service entrance equipment and local practice.
4. The customer shall obtain approval from the BC Hydro area or district manager for variance due to local conditions or for the use of 120 V or 347 V two-wire services. The customer shall obtain approval from the local electrical inspector for service entrance equipment at the pole base.
5. This standard is based on distribution design procedure L15-2.

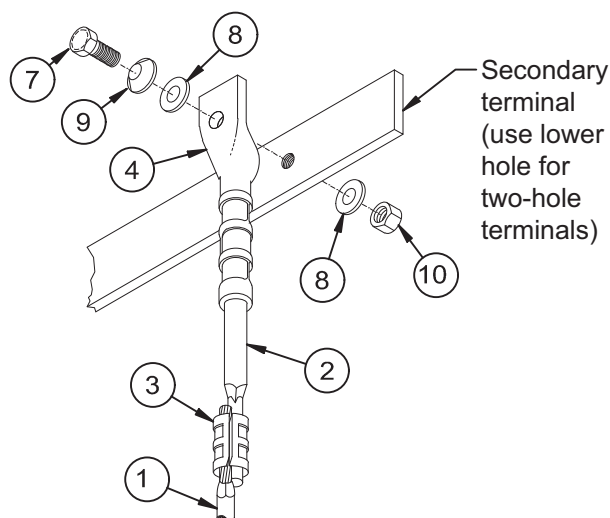


Figure 1 – One- and two-hole transformer secondary terminals

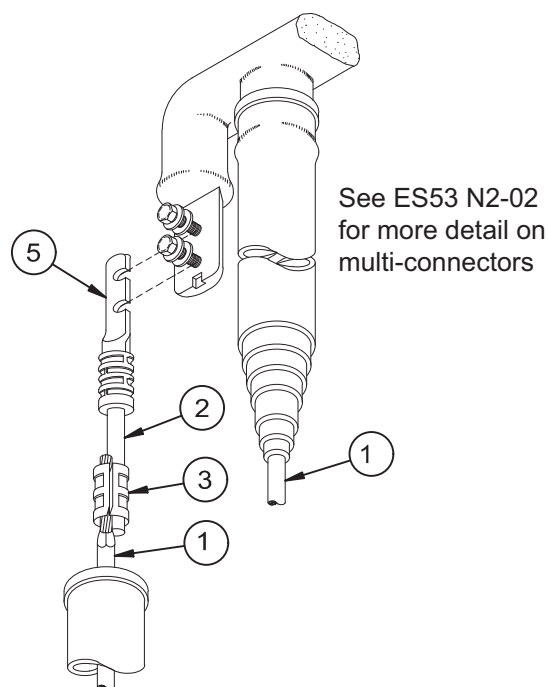


Figure 2 – 1000 A compression-type multi-connectors

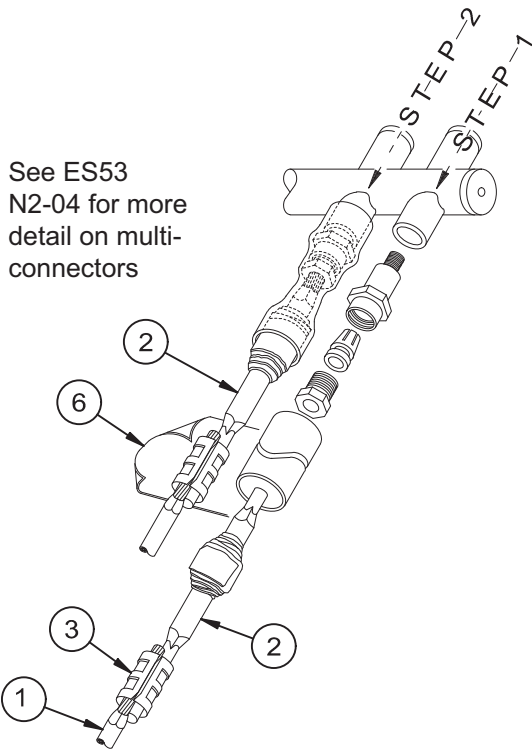


Figure 3 – 1500 A wedge-type multi-connectors

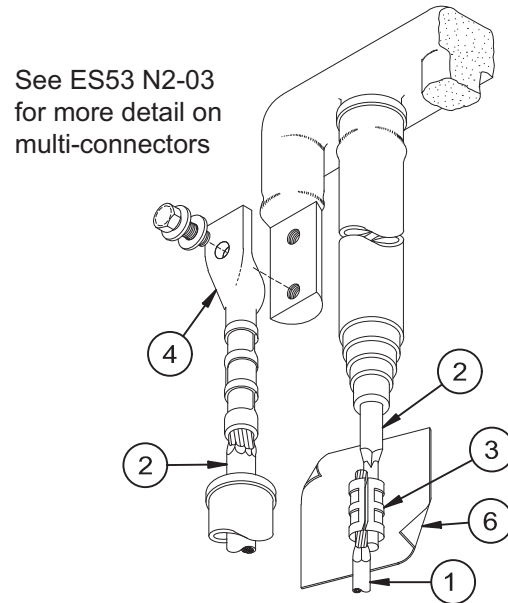


Figure 4 – 2000 A compression-type multi-connectors