

# CUSTOMER INSTALLATION INSTRUCTIONS

Reliability by Design.

IN0160 (R1) Terasaki Circuit Breaker Cables Insulation Boots  
Installation Instructions  
30 April 2025

## 1 Purpose

The purpose of this document is to provide guidelines for the installation of the Terasaki Circuit Breaker Cable Insulation Boots.

The section of conductor between the transformer LV Bushings/LV terminals to the input of the LV ACB is only protected by the transformer HV fusing.

To eliminate/mitigate the potential for Arc Flash in this section the transformer LV electrodes (c, b, a & n) to the input phase ends of the LV ACB (c, b, a) are to be fully covered and identified on their respective ends by their respective phase colours.

This involves fitting terminal covers to respective transformer terminal electrodes in the LV Cabinet.

*In addition to these instructions, installation must comply with any other relevant general or site specific: regulations, standards, and environmental and safety requirements, including safe work practices, as specified in local and/or national work instructions or codes.*

## 2 Scope

This instruction applies to the LV Frame product which require the Cables Insulation Boots for Arc Flash mitigation/elimination within 750 & 1000kVA mini substations on the Aurora Energy Network.

All installation work will be undertaken by appropriately trained and qualified installers.

## 3 Parts Required

The following items are required for each terminal of a Terasaki Circuit Breaker:

| Qty | Part Description              |
|-----|-------------------------------|
| 1   | Cable Insulation Boot - Red   |
| 1   | Cable Insulation Boot - White |
| 1   | Cable Insulation Boot - Blue  |
| 8   | 4.6 x 368mm Cable Tie         |

## 4 Installation

- a. Insert the cables through the Insulation Boots, and after removing the Circuit Breaker cover install the cables to the Terasaki Circuit Breaker terminals, noting that:

### ➤ TRANSFORMER LV END

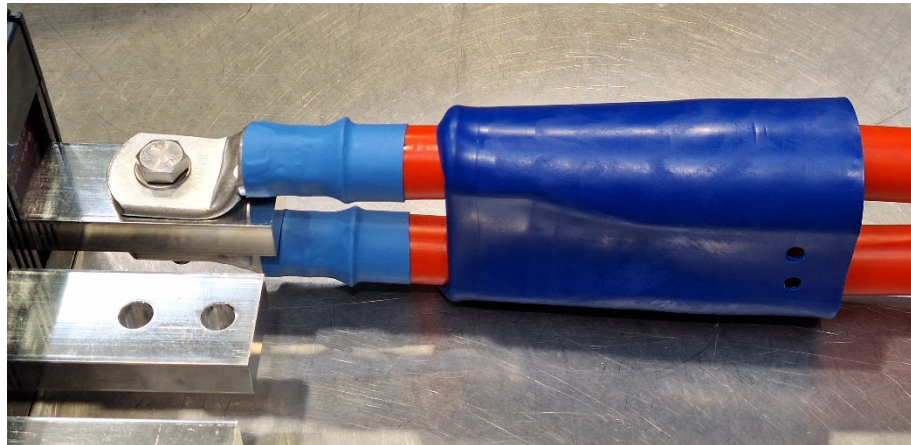
The Transformer manufacturer identifies phases and neutral as **c**, **b**, **a** & **n** left to right looking at the LV side:

- c** = Blue cover
- b** = White cover
- a** = Red Cover
- n** = Black

### ➤ LV ACB

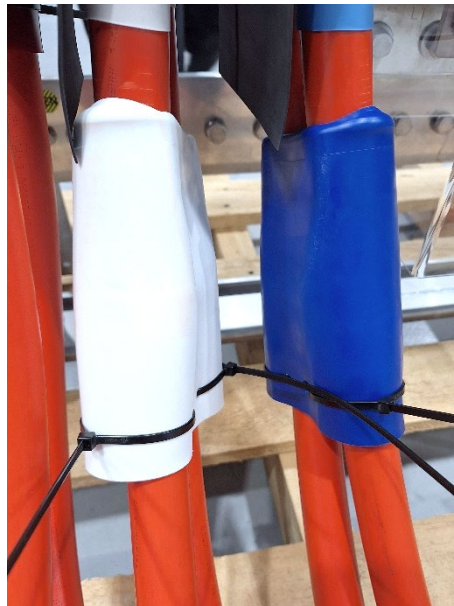
Installation of the Insulation Boots over the Terasaki Circuit Breaker terminals is, from left to right:

- a** = Red Insulation Boot
- b** = White Insulation Boot
- c** = Blue Insulation Boot

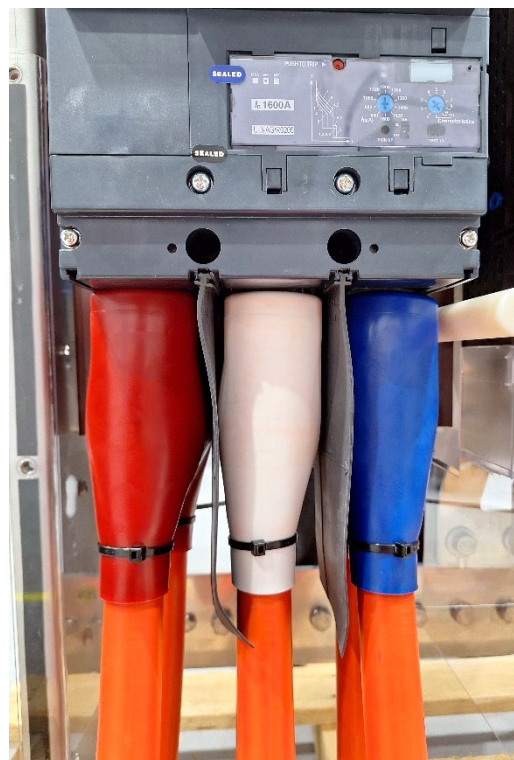
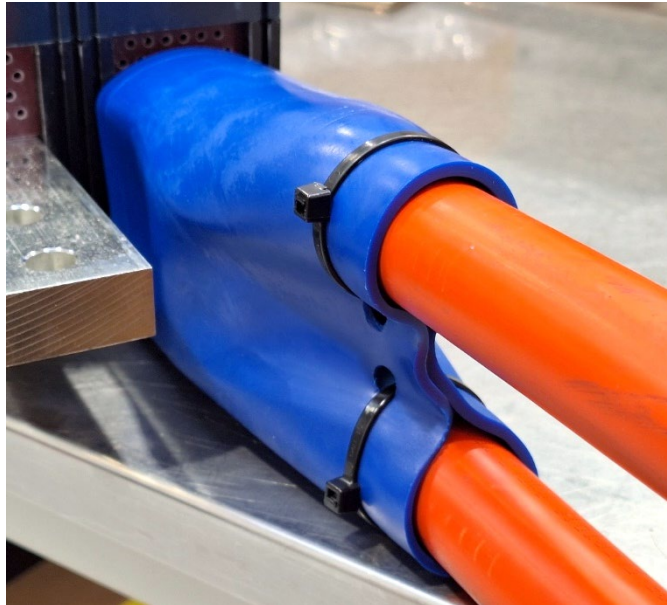




- b. With the Insulation Boots away from the Circuit Breaker terminals, loop a Cable Tie through each hole of the Insulation Boots, and around each cable. Do not tighten yet!



- c. Slide the Insulation Boots over the corresponding Circuit Breaker terminals until covered. Then tighten the Cable Ties until the Insulation Boots are secured to the cables, and trim the Cable Ties tails with flush cutters.

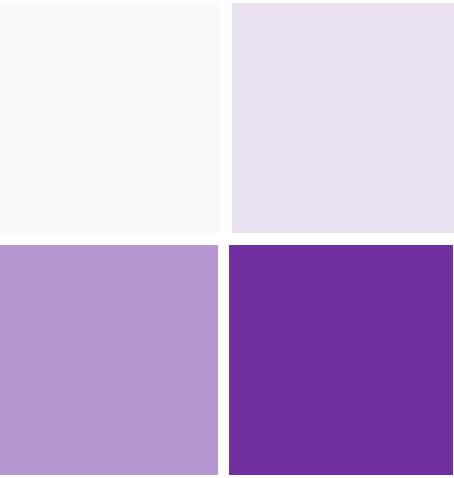


- d. Ensure all Insulation Boots are secured before re-fitting the Circuit Breaker cover.



## Customer Installation Instructions





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