Magnum DS® switchgear terminal boots for cable connections—installation

**WARNING**

(1) ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.

(2) DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON THE EQUIPMENT WHILE ENERGIZED. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING.

(3) ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS IF A CIRCUIT BREAKER CANNOT BE REMOVED TO A SAFE WORK LOCATION.

(4) DRAWOUT CIRCUIT BREAKERS SHOULD BE LEVERED [RACKED] OUT TO THE DISCONNECT POSITION.

FAILURE TO FOLLOW THESE STEPS FOR ALL PROCEDURES DESCRIBED IN THIS INSTRUCTION LEAFLET COULD RESULT IN DEATH, BODILY INJURY, OR PROPERTY DAMAGE.

**General**

Care should be exercised during installation to minimize cuts and gaps in the boot material for maximum coverage of the connection.

**Required tools and supplies**

- Heavy-duty box cutter knife or similar
- Plastic cable wire-ties

**Parts provided**

Each shipment shall contain one terminal boot per phase for each circuit. Boots vary in size based on the number of lugs/cables per terminal adapter. The illustrations herein represent only one size, but all items are installed in like manner.

**Installation of insulated terminal boots**

**Step 1**

As shown in Figure 1, open the "clam-shell" shaped boot with the "hinge" area away from the cable path. Flex and install the boot so that the opening in the boot will surround the conductor between the glass-polyester conductor support and the cables. Orient the boot so that the terminal adapter copper bar will be encased inside.

---

Figure 1. Step 1
Step 2
As shown in Figure 2, the openings for each cable must be cut into the boot at installation. Using the raised areas as a guide, cut an opening for the passage of each cable. Also, cut a slit between the cable opening and the center flange, to permit insertion of the cable into the boot. Unused raised areas (cable access points) will remain as boots. Boots are designed for multiple cable options and for universal fit whether cables are going up (as shown) or down.

Step 3
As shown in Figure 2, following encasing of the cables in the boot, close the seam with plastic wire ties in each hole provided along the perimeter of the boot. The exposed copper and terminal connections should be effectively isolated inside the boot.

Figure 2. Steps 2 and 3

Disclaimer of warranties and limitation of liability
The information, recommendations, descriptions, and safety notations in this document are based on Eaton’s experience and judgment, and may not cover all contingencies. If further information is required, an Eaton sales office should be consulted.

Sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between Eaton and the purchaser.

THERE ARE NO UNDERSTANDINGS, AGREEMENTS, WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OTHER THAN THOSE SPECIFICALLY SET OUT IN ANY EXISTING CONTRACT BETWEEN THE PARTIES.

ANY SUCH CONTRACT STATES THE ENTIRE OBLIGATION OF EATON. THE CONTENTS OF THIS DOCUMENT SHALL NOT BECOME PART OF OR MODIFY ANY CONTRACT BETWEEN THE PARTIES.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability, or otherwise for any special, indirect, incidental, or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations, and descriptions contained herein.

The information contained in this manual is subject to change without notice.