Undercarpet Power Cabling System
Power Transition Block Assembly 554862-1

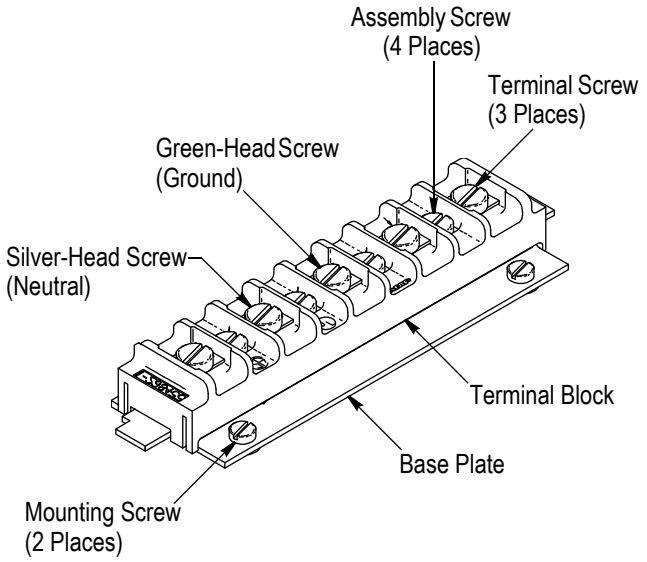

Figure 1

1. INTRODUCTION

Power Transition Block Assembly 554862-1 is designed to connect round power cable to undercarpet power cable. The transition block assembly accepts 3- or 5-conductor power cable and should be used exclusively with AMP NETCONNECT® undercarpet wall or floor transition boxes.

NOTE

Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets]. Figures are not drawn to scale.

2. DESCRIPTION

The power transition block assembly consists of a terminal block with terminals and a base plate. Included are terminal screws, green-head ground screw, silver-head neutral screw, assembly screws, and mounting screws and washers. See Figure 1.

The terminals (on the underside of the terminal block) feature insulation-piercing contact tines that connect to the undercarpet power cable. The terminal, ground, and neutral screws (on top of the terminal block) connect to the round power cable.

3. INSTALLATION PROCEDURE

IMPORTANT: It is recommended that a qualified electrician install the transition block assembly.

DANGER

To avoid personal injury, ALWAYS DISCONNECT electrical power before beginning work on any circuit.

3.1. Preparation

1. Mount the transition box according to the instructions included with the product.

NOTE

Instruction sheet included with product is:

408-10336 — Surface-Mount Wall Transition Box
408-10412 — Flush-Mount Wall Transition Box

2. Install, but do not terminate, the undercarpet power cable and vinyl floor preparation according to the instructions included with the product.

NOTE

Instruction sheet included with product is:

408-3154 — Vinyl Floor Preparation and Undercarpet Power Cable

3. Remove the 4 assembly screws from the terminal block, then separate the terminal block from the base plate.

3.2. Transition Block Assembly

A. Dead-End (End-of-Line) Method

In the dead-end method, the transition block assembly is installed onto the end of the undercarpet power cable, such as in applications using wall transition boxes and floor transition boxes. Proceed as follows:

1. Using scissors (recommended), cut the cable squarely across the end.

NOTE

Ensure that the cable is cut squarely across the end before installing the transition block assembly.

2. Trim the top and bottom blue vinyl shields of the cable to 32 mm [1.25 in.] shorter than the cable. Refer to Figure 2.

3. Observe and match the polarities of the transition block with the cable, making sure that the silver-head neutral screw is in alignment with the white (neutral) conductor of the cable and the green-head ground screw is in alignment with the green (ground) conductor of the cable.

4. Insert the end of the cable into the slot located on the side of the terminal block, then slide the cable along the slot until it is properly positioned according to the number of conductors.

Undercarpet Power Cable Position

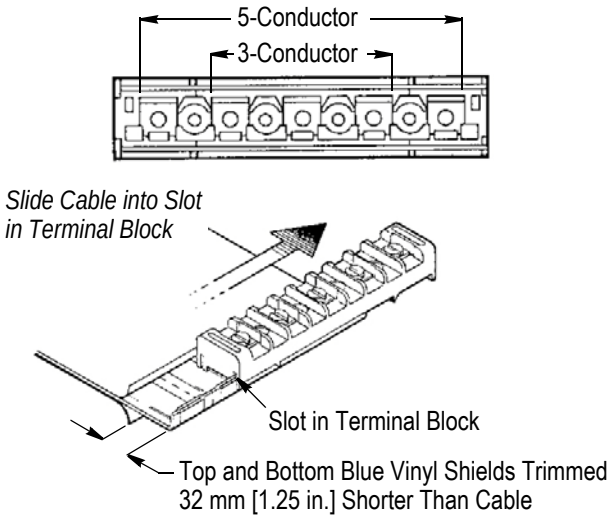

Figure 2

5. Center the terminal block (along with the cable) on the base plate using the locating legs. Make sure to orient the terminal block so that the cable is opposite the mounting screw holes of the base plate. See Figure 3.

6. Insert the 4 assembly screws into the holes in the terminal block. See Figure 3. Tap each screw head lightly so that the screw starts entry into the cable, then alternately tighten the screws to a torque of 2.26 Nm [20 in.-lb].

Dead-End Method

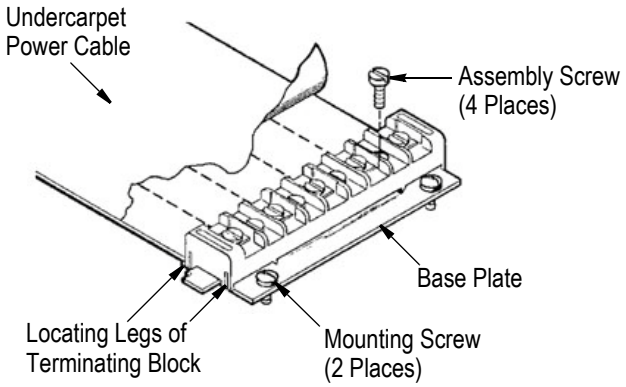

Figure 3

7. Using the mounting screws (in the base plate), secure the assembled transition block to the transition box.

8. Install the top shield according to the instructions included with the product.

NOTE

Instruction sheet included with product is:

408-3150 — Top Shield and Bonding Clips

B. Feed-Through (Pass-Through) Method

In a feed-through method, the transition block assembly is installed in the middle of the undercarpet power cable so that the cable feeds additional outlets, such as in applications using floor transition boxes. Proceed as follows:

1. Using the mounting screws (in the base plate), secure the assembled transition block to the transition box.

2. Refer to Figure 4, and follow Steps 1 through 3 of Paragraph 3.2,A.

3. Center the terminal block (along with the cable) on the base plate using the locating legs.

4. Insert the 4 assembly screws into the holes in the terminal block. See Figure 4. Tap each screw head lightly so that the screw starts entry into the cable, then alternately tighten the screws to a torque of 2.26 Nm [20 in.-lb].

5. Follow Step 8 of of Paragraph 3.2,A.

Feed-Through Method

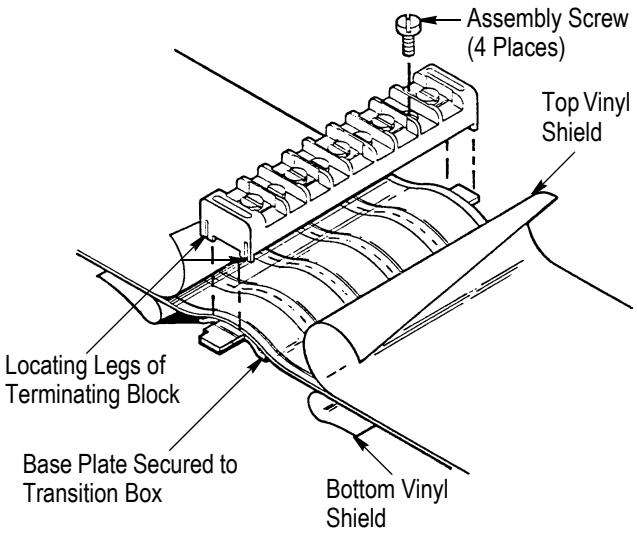

Figure 4

4. REPLACEMENT AND REPAIR

Transition block assembly components are not repairable. DO NOT use any defective or damaged components.

5. REVISION SUMMARY

Revisions to this instruction sheet include:

- Rebranded to CommScope.