

## 653 Non-Conductive Pull Boxes - Material Specification

### Description

This section describes Non-Conductive Pull Boxes material specifications.

### Material

(1) Furnish non-conductive pull boxes from department approved product list conforming to WisDOT Standard Specification section 653 and standard detail drawing [SDD 9B16-1](#).

(2) Non-conductive pull boxes must be made of non-conductive materials conforming to all the requirements of the current edition of ANSI/SCTE 77 (SCTE 77) "Specifications for Underground Enclosure Integrity" and with the modified impact requirements. The tier rating and modified impact requirements are listed below.

Impact: Any portion of the enclosure shall withstand a 70 ft-lb impact administered by a weight having a "B" tup per ASTM D2444 without puncturing, splitting or cracking. The test is to be conducted at a temperature of -30 degrees Fahrenheit. The cover is tested while placed on the enclosure.

Enclosure, extension, ring and cover shall have a minimum Tier 15 rating as specified in SCTE 77. Tier rating must be accomplished and results provided with all methods of adjustability being proposed.

(3) Must be in compliance with the 2011 "Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way" Sections R302.7.2 and R302.7.3.

(4) Pull box enclosure must be a truncated cone in shape. The taper must be from the bottom to top (i.e. the diameter of the bottom shall be larger than that of the top).

(5) Pull box enclosures shall be comprised of the following components listed below. No individual component shall exceed 100 pounds in weight.

(6) Main body with a depth of 36 or 42 inches, as specified in the plans, and must have minimum inside diameter of 24 inches. Must be field trim able for custom lengths. Must have an open bottom with 2 inch minimum continuous support foot and a maximum diameter of 33 inches.

(7) Extension option of up to 12 inches. Must be field trim able for custom lengths. Cover must be round in shape, maximum diameter of 28 inches, require a tool to open and have no threaded fasteners. Cover shall be embossed in letters at least 3/4 inches high with "ELECTRIC" or as specified in the plans.

(8) Cover support ring with a minimum opening diameter of 22 inches. Must be adjustable for slope corrections of up to 5%. Must be designed to bond to surrounding sidewalk, and allow for uniform cover/pavement vertical movement of up to 6 inches.

### Pay Items

653.0154 Pull Boxes Non-Conductive 24x36-Inch	EACH
653.0164 Pull Boxes Non-Conductive 24x42-Inch	EACH