Society of Cable Telecommunications Engineers

**ENGINEERING COMMITTEE**
**Interface Practices Subcommittee**

**AMERICAN NATIONAL STANDARD**

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## Test Method for Cored Depth Verification

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# 1. Scope

The purpose of this test method is to determine the cored depth of Trunk, Feeder and Distribution Coaxial cable. The core depth is the internal measured distance between the dielectric foam and the square-cut end of the outer sheath. This test method will define the suggested method for core depth measurement.

# 2. Compliance Notation

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| ***shall*** | This word or the adjective "***required***" means that the item is an absolute requirement of this document. |
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# 3. Equipment

## 3.1. Dial caliper

A Dial Caliper calibrated to read in at least 0.001 inch or 0.03 mm increments, a Mitutoyo 505-626 or equivalent.

## 3.2. Coring Tool

A Coring Tool for the coaxial cable to be tested.

# 4. Test Samples

Two-foot sample of the cable to be tested. Both ends *should* be square-cut and free of burrs or other impediments. If jacketed, and a jacket stripping/coring tool combination is not used, the jacket *should* be removed a sufficient distance as recommended by the manufacture to not impede the coring tool's progress.

## 5. Test Measurement

1. Use the coring tool recommended by the tool manufacturer that corresponds to the cable to be tested. Verify the tool so that it matches the cable sample by the cable size and corresponding part numbers along with the tool part number and manufacturer's recommendations.
2. Core the cable by following the coring tool manufacturer's specific directions found on their instruction sheets.

3. Ensure the dial caliper is calibrated, and reads zero in the closed position. Extend the caliper out until it is just longer than the expected core depth as seen in Figure 1. Insert the dial caliper measuring blade inside the cored cable until the blade gently contacts the dielectric and lightly push down until the calipers butt contacts the cable outer sheath. Record this value as core depth. Record three measurements 120 degrees apart and average. The average core depth must meet the connector manufacturer's specification for core depth.

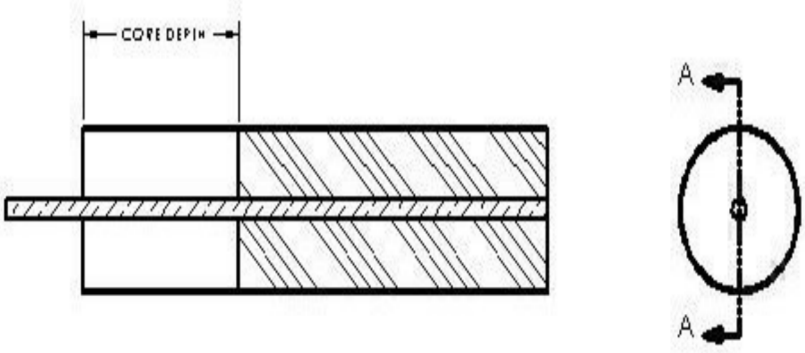


**Figure 1 – Core Depth**


**Figure 2 – Example Core Depth**

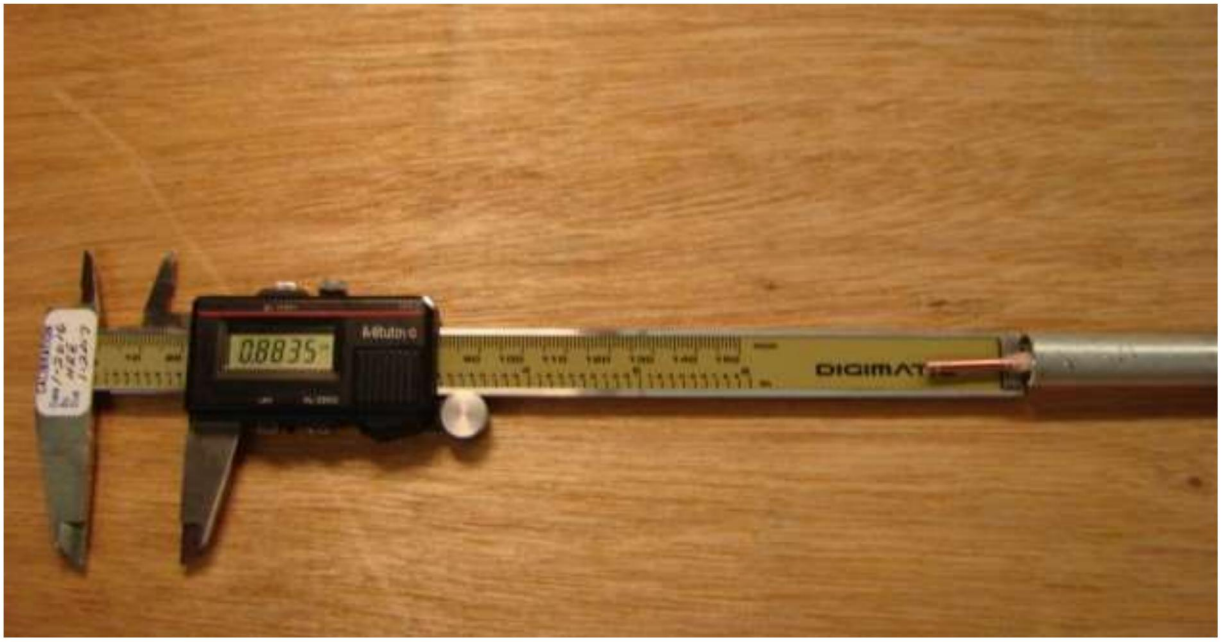


**Figure 3 – Example Core Depth**

**Table 1 – Results table**

| **Results of Core Depth Measurement** | | | |
|---|---|---|---|
| Tester: | | Date: | |
| Cable Manufacturer: | | | |
| Cable Type/Size: | | | |
| Sample No.: | | | |
| Measurement 1: | | | |
| Measurement 2: | | | |
| Measurement 3: | | | |
| Average:<br>(M1+M2+M3)/3 | | | |
| Comments: | | | |