



***Society of Cable
Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Interface Practices Subcommittee**

AMERICAN NATIONAL STANDARD

ANSI/SCTE 99 2009

**Test Method For
Axial Pull Connector/Drop Cable**

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1.0 SCOPE

1.1 The purpose of this document is to provide a test method for measuring the axial force required to cause one or more of the following conditions:

1.1.1 Cable structural failure.

1.1.2 Connector structural failure.

1.1.3 Separation due to slip at the connector/ cable interface.

2.0 NORMATIVE REFERENCES

The following documents contain provisions, which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below:

2.1 ANSI/SCTE 33 2001: Test Method for Diameter of Drop Cable

3.0 EQUIPMENT

3.1 A “tensile test machine” (Instron Model 1122 or equivalent) with a means of recording the test data and appropriate grips (as required). It may be desirable to have an automatic “cut-off” feature that can be activated by a “maximum excursion limit” setting and/or “maximum force limit”. The machine should have a 500 pound load capability with a system accuracy of ± 0.5 percent over the range in use.

3.2 Machinist’s outside micrometer or dial caliper calibrated to read directly to at least 0.001 inch or 0.01 mm, with each division of a width that facilitates estimation of each measurement to 0.0005 inch or 0.0127 mm.

3.3 Test adapters as shown in figure 1, or equivalent.

Note: There are alternative methods for attaching the test fixture to various devices. The intent of the diagram is to provide a uniform dimensional “F” Female port.

3.4 “F” Connectors of interest.

3.5 Cable of interest.

3.6 Tools

3.6.1 Cable preparation tool