



***Society of Cable
Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Interface Practices Subcommittee**

AMERICAN NATIONAL STANDARD

ANSI/SCTE 117 2010

**Specification for Braided 75 Ω , Mini-Series Broadband
Coaxial Cable**

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TABLE OF CONTENTS

INTRODUCTION	1
1.0 SCOPE	1
2.0 CENTER CONDUCTOR	1
3.0 DIELECTRIC	2
4.0 SHIELD CONSTRUCTION	2
5.0 JACKET	4
6.0 FINISHED PRODUCT TESTS	4
7.0 NORMATIVE REFERENCES	7
8.0 INFORMATIVE REFERENCES	8
9.0 GLOSSARY	9

INTRODUCTION

This specification is intended to apply to flexible 75-ohm, Braided, Mini-Series Broadband Coaxial Cable.

When reference to other regulations or specifications is made, the user should adhere to the latest revision of the regulation or specification.

1.0 SCOPE

- 1.1 This specification defines the required performance with regards to electrical and mechanical properties of 75-ohm, Braided, Mini-Series Coaxial Cable for Broadband applications.
- 1.2 These cables are used in the transmission of RF signals and power for voice, data and video applications.

2.0 CENTER CONDUCTOR

2.1 Dimensions

- 2.1.1 Center conductor dimension shall be 0.0226 ± 0.001 inches
- 2.1.2 Mechanical - Minimum break strength (MBS) of the copper clad steel shall be determined by multiplying the minimum cross sectional area by 95,000 psi. MBS for 0.0226" conductor equals 38 lbf.
- 2.1.3 Solid copper center conductor may also be specified if required by the user.

2.2 Electrical

- 2.2.1 The center conductor electrical conductivity shall be 40 percent IACS minimum.

Maximum DC Resistance shall be measured per ANSI/SCTE 44 2010, and shall be 51.0 ohms/1000 feet (167 ohms/km).