



***Society of Cable
Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Interface Practices Subcommittee**

AMERICAN NATIONAL STANDARD

ANSI/SCTE 153 2008

Drop Passives: Splitters, Couplers and Power Inserters

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TABLE OF CONTENTS

1.0	SCOPE	1
2.0	MECHANICAL	1
3.0	ELECTRICAL	4
4.0	ENVIRONMENTAL	7
5.0	NORMATIVE REFERENCES	7
Figure 1: Orthogonal Mounting of Device on 0.500" Hole Pattern		2
Figure 2: Example of Conforming Labeling		3
Table 1: Allowable Insertion Loss		4
Table 2: Minimum Port to Port Isolation		5

1.0 SCOPE

The purpose of this document is to recommend mechanical, environmental and electrical standards for broadband radio frequency (RF) devices whose primary purpose is to divide signals presented to an input port among two or more output ports with a fixed division ratio that is nominally independent of frequency within the specified bandwidth limits of the device. Alternately, such devices can be used to combine signals from several input ports into a common output port. Its scope is limited to 75-ohm devices whose ports are provided with type F connectors. The most common use for such devices is on-premises RF signal distribution.

Products covered by this specification include signal splitters (2,3,4 and 8-way), directional couplers, combined splitter/directional couplers and power inserters.

Two levels of compliance are specified. Devices meeting all electrical, mechanical and environmental specifications may be specified as meeting the requirements of this specification without qualification. Those meeting electrical and mechanical, but not environmental requirements may be designated as meeting this specification with the suffix "Indoor Use Only " and the products must be marked as specified herein to guide users in their appropriate application.

The specification is not intended to apply to specialty devices, nor is it intended to limit or restrict any manufacturer's innovation and improvement.

2.0 MECHANICAL

2.1 RF Ports

- 2.1.1 RF ports on devices intended for indoor applications must conform to the requirements of ANSI/SCTE 02 2006.
- 2.1.2 RF ports on devices intended to be rated for outdoor use must conform to the requirements of ANSI/SCTE 01 2006.
- 2.1.3 Where more than one connector exits from a common surface of the device, connectors will be spaced a minimum of 0.925" apart, center-to-center.