

Society of Cable Telecommunications Engineers

ENGINEERING COMMITTEE Interface Practices Subcommittee

AMERICAN NATIONAL STANDARD

ANSI/SCTE 02 2015

Specification for "F" Port, Female, Indoor

ANSI/SCTE 02 2015

NOTICE

The Society of Cable Telecommunications Engineers (SCTE) Standards and Operational Practices (hereafter called "documents") are intended to serve the public interest by providing specifications, test methods and procedures that promote uniformity of product, interchangeability, best practices and ultimately the long term reliability of broadband communications facilities. These documents shall not in any way preclude any member or non-member of SCTE from manufacturing or selling products not conforming to such documents, nor shall the existence of such standards preclude their voluntary use by those other than SCTE members.

SCTE assumes no obligations or liability whatsoever to any party who may adopt the documents. Such adopting party assumes all risks associated with adoption of these documents, and accepts full responsibility for any damage and/or claims arising from the adoption of such documents.

Attention is called to the possibility that implementation of this document may require the use of subject matter covered by patent rights. By publication of this document, no position is taken with respect to the existence or validity of any patent rights in connection therewith. SCTE shall not be responsible for identifying patents for which a license may be required or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention.

Patent holders who believe that they hold patents which are essential to the implementation of this document have been requested to provide information about those patents and any related licensing terms and conditions. Any such declarations made before or after publication of this document are available on the SCTE web site at http://www.scte.org.

All Rights Reserved

© Society of Cable Telecommunications Engineers, Inc. 2015 140 Philips Road Exton, PA 19341

ANSI/SCTE 02 2015

Table of Contents

<u>Title</u>)		Page Number
NOT	ICE		2
1.		oe	4
2.	Norm	4	
	2.1.	native ReferencesSCTE References	4
	2.2.	Standards from other Organizations	4
	2.3.	Published Materials	4
3.	Inforn	mative References	4
4.	Comp	pliance Notation	5
5.	Defini	nitions	5
6.	Electrical Requirements		6
		Return Loss, Insertion Loss, Surge Withstand, and Shielding Effective	
	6.2.	Center Conductor Contact Resistance	6
	6.3.	Outer Conductor Contact Resistance	6
	6.4.	Center Conductor Continuous Current	6
7.	Mech	nanical Requirements	6
	7.1.	Physical dimensions	6
	7.2.	Mechanical Strength	7
		7.2.1. Center Conductor Mating	7
		7.2.2. Withstand Lightening Lorque	8
		7.2.3. Axial Pull Strength	8
		7.2.4. Other	8
8.	Envir	ronmental Requirements	8

List of Figures

<u>Title</u>	Page Number
FIGURE 1 – RECOMMENDED INDOOR FEMALE "F" PORT	6

List of Tables

<u>Title</u>	Page Number
TABLE 1 – RECOMMENDED INDOOR FEMALE "F" PORT DIMENSIONS	7

ANSI/SCTE 02 2015

1. Scope

The purpose of this document is to specify requirements for female indoor "F" ports that are used in the 75-ohm RF broadband communications industry and that interface with "F" Male connectors as defined by ANSI/SCTE 123 and ANSI/SCTE 124.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

2.1. SCTE References

- ANSI/SCTE 103 2012, Test Method for DC Contact Resistance
- ANSI/SCTE 123 2011, Specification for "F" Connector Male Feed-Through
- ANSI/SCTE 124 2011, Specification for "F" Connector Male Pin Type
- ANSI/SCTE 149 2013, Test Method for Withstand Tightening Torque 'F' Female
- ANSI/SCTE 191 2013, Test Method for Axial Pull Force, Female "F" Port
- IPS TP 417 R02, Test Method for F Connector Center Conductor Retention

2.2. Standards from other Organizations

• No normative references are applicable.

2.3. Published Materials

• No normative references are applicable.

3. Informative References

The following documents might provide valuable information to the reader but are not required when complying with this document.

• No informative references are applicable.