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S T A N D A R D S

Interface Practices Subcommittee

AMERICAN NATIONAL STANDARD

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**Specification for 5/8-24 Plug, (Male),
Trunk & Distribution Connectors**

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1. Introduction

1.1. Executive Summary

The purpose of this document is to identify the mechanical characteristics of 5/8-24 Plug, (Male) Trunk & Distribution Connectors used in CATV HFC networks.

1.2. Scope

The purpose of this specification is to serve as a recommended guideline for the physical dimensions of all male 5/8 – 24 plug (male) trunk and distribution connectors that are typically used in the 75 ohm RF broadband communications industry. It is not the purpose of this standard to specify the details of manufacturing.

1.3. Benefits

This specification provides uniformity in the mating of the equipment used between manufacturers that ensure compliance to the mechanical and electrical performance of the interface.

1.4. Intended Audience

The existence of this document is crucial for manufacturers, corporate engineers, technical operations, installers, and technicians.

1.5. Areas for Further Investigation or to be Added in Future Versions

- None

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

- No normative references are applicable.

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.

3.1. SCTE References

- No informative references are applicable.

3.2. Standards from Other Organizations

- No informative references are applicable.

3.3. Published Materials

- No informative references are applicable.

4. Compliance Notation

<i>shall</i>	This word or the adjective “ <i>required</i> ” means that the item is an absolute requirement of this document.
<i>shall not</i>	This phrase means that the item is an absolute prohibition of this document.
<i>forbidden</i>	This word means the value specified shall never be used.
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<i>deprecated</i>	Use is permissible for legacy purposes only. Deprecated features may be removed from future versions of this document. Implementations should avoid use of deprecated features.

5. Abbreviations and Definitions

5.1. Abbreviations

HFC	hybrid fiber-coax
SCTE	Society of Cable Telecommunications Engineers

5.2. Definitions

Reference Plane	The reference plane on the male 5/8-24 plug is the mating surface that seats with the female 5/8-24 equipment port.
Upstream	Information flowing from the user to the hub

6. General Requirements

Samples of the finished products shall be measured, tested and inspected to insure that they conform to the dimensions of this document.

7. Physical Dimensions

The recommended physical dimensions for 5/8-24 male plugs shall be as specified in Figure 1.

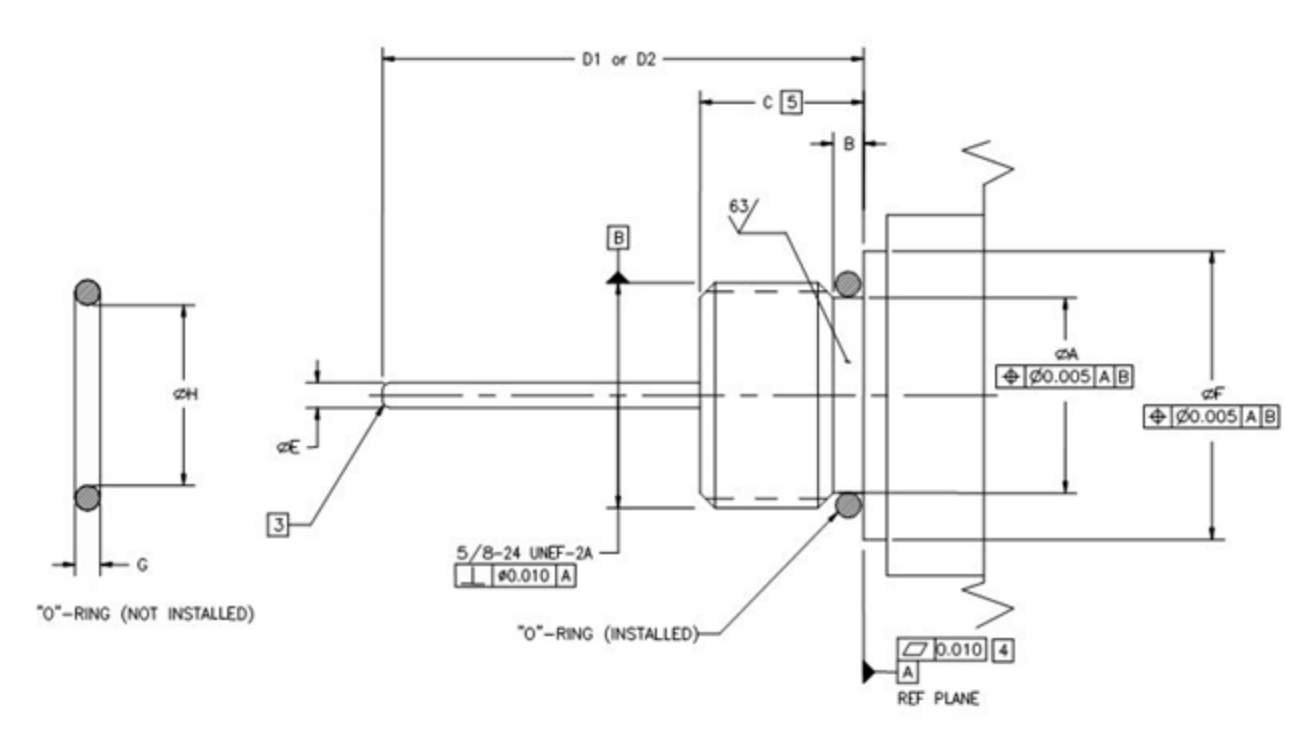


Figure 1 - Physical Dimensions for 5/8-24 Plug, (Male), Trunk & Distribution Connectors

Table 1 – Physical Dimensions

DESCRIPTION	DIM	mm		inches		NOTES
		MIN	MAX	MIN	MAX	
O-RING LAND DIAMETER	A	13.69	13.84	0.539	0.545	
O-RING LAND WIDTH	B	1.80	2.54	0.071	0.100	
INSERTION DEPTH	C	7.37	9.40	0.290	0.370	5
PIN LENGTH	D	53.72	61.98	2.115	2.440	
PIN DIAMETER	E	1.65	1.85	0.065	0.073	3
SHOULDER DIAMETER	F	18.80	25.40	0.740	1.000	
O-RING CROSS SECTION DIAMETER	G	1.70	1.85	0.067	0.073	
O-RING INSIDE DIAMETER	H	12.29	12.55	0.484	0.494	

NOTES:

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- 1 DRAWING NOT TO SCALE.
- 2 INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994.
- 3 RADIUS OR CHAMFER OPTIONAL.
- 4 AFTER FINISH APPLIED.
- 5 INCLUDES ALL PROTRUDING FEATURES, SUCH AS ROLL-OVERS AND DIELECTRIC.