ATIS-0600307.2018(R2023)

Fire Resistance Criteria – Ignitability Requirements for Equipment Assemblies, Ancillary Non-Metallic Apparatus, and Fire Spread Requirements for Wire and Cable

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Fire Resistance Criteria – Ignitability Requirements for Equipment Assemblies, Ancillary Non-Metallic Apparatus, and Fire Spread Requirements for Wire and Cable

Alliance for Telecommunications Industry Solutions

Approved May 2018

American National Standards Institute, Inc.

Abstract

This standard covers the fire resistance characteristics of equipment assemblies and selected products and materials used within telecommunications network equipment facilities and spaces of similar function. This standard along with the latest published version of ATIS-0600319 shall be used as the means of appraising fire risk within a telecommunications network equipment facility or space with similar function.

Foreword

The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between providers, customers, and manufacturers. The Sustainability in Telecom: Energy and Protection (STEP) Committee – formerly the Network Interface, Power, and Protection Committee (NIPP) – engages industry expertise to develop standards and technical reports for telecommunications equipment and environments in the areas of energy efficiency, environmental impacts, power, and protection. The work products of STEP enable vendors, operators, and their customers to deploy and operate reliable, environmentally sustainable, energy-efficient communications technologies. STEP is committed to proactive engagement with national, regional, and international standards development organizations and forums that share its scope of work.

ANSI guidelines specify two categories of requirements: mandatory and recommendation. The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, STEP, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time it approved this document, STEP, which is responsible for the development of this standard, had the following leadership:

E. Gallo, STEP Chair (Ericsson)
J. Fuller, STEP Vice Chair (AT&T)
C. Forbes, STEP NPP Chair (NTS)
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The Network Physical Protection (NPP) Subcommittee was responsible for the development of this document.

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American National Standard for Telecommunications –

Fire Resistance Criteria – Ignitability Requirements for Equipment Assemblies, Ancillary Non-Metallic Apparatus, and Fire Spread Requirements for Wire and Cable

1 Scope, Purpose, & Application

1.1 Scope

This standard is intended to cover the fire resistance characteristics of equipment assemblies and selected products and materials used within service provider's telecommunications networks, including OSP enclosures and battery systems.

The criteria within this standard are not applicable to electrically powered auxiliary equipment – such as oscilloscopes, personal computers, meters, etc. – that are not integral to the telecommunications equipment. AC Power distribution equipment is not covered by this standard, as the requirements are dictated by NFPA 70 and the appropriate safety Listing.

1.2 Purpose

This American National Standard provides fire resistance requirements for new telecommunications equipment assemblies, electronic components, interconnection wire, and cable used in telecommunications networks. Test procedures and criteria are provided to determine the ignitability of components used in equipment subassemblies and the fire spread of wire and cable assemblies.

This standard provides fire resistance criteria that should be used to determine if the covered products and materials are appropriate for use in the service providers' telecommunications networks. Where appropriate, test procedures and performance criteria are provided to assist with product and materials evaluations.

1.3 Application

Other material flammability criteria may apply – such as those required as part of a Nationally Recognized Testing Laboratories (NRTL) Listing program, federal, state, or local codes; or other user specified standards or documents.

Values of units of measure as indicated in this standard are shown in both SI and British Engineering units. Where a unit of measure is followed by a value enclosed in parentheses, the second value may be an approximation of the first value. In this standard, the first-stated value is the requirement.