UL 497A

STANDARD FOR SAFETY

Secondary Protectors for
Communications Circuits

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UL Standard for Safety for Secondary Protectors for Communications Circuits, UL 497A

Third Edition, Dated March 20, 2001

Summary of Topics

This reaffirmation of ANSI/UL 497A dated December 3, 2024 is being issued to update the title page to reflect the latest ANSI approval date as a Reaffirmed American National Standard (ANS). No changes in requirements are involved.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The requirements are substantially in accordance with Proposal(s) on this subject dated October 4, 2024.

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UL 497A

Standard for Secondary Protectors for Communications Circuits

First Edition – January, 1990
Second Edition – January, 1996

Third Edition

March 20, 2001

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through December 3, 2024.

The most recent designation of ANSI/UL 497A as a Reaffirmed American National Standard (ANS) occurred on December 3, 2024. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover secondary protectors for use in single- or multiple-pair-type communications circuits that are intended to be installed in accordance with Article 800 of the National Electrical Code, ANSI/NFPA 70.

1.2 Secondary protectors are intended to be used in the protected side of telecommunications networks that have an operating rms voltage to ground less than 150 volts and installed or used in accordance with the National Electrical Code, NFPA 70.

1.3 These requirements do not cover telephone protectors that are covered by the Standard for Protectors for Paired-Conductor Communications Circuits, UL 497. These requirements do not cover telephone equipment such as telephone answering devices, residential telephone instruments, telephone dialers, cordless telephones, key systems, and private-branch exchange equipment that is covered by the Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1 or the Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.

1.4 These requirements do not cover cellular telephones or other receiver/transmitter-type devices. Equipment of this type is covered by one of the following Standards:

- Standard for Audio, Video and Similar Electronic Apparatus – Safety Requirements, UL 60065
- Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1; or
- Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.

1.5 These requirements may be used, directly or by reference, to investigate portions of other equipment not classified as telecommunications equipment accessories and that may be connected to a telecommunications network, insofar as they may be applicable to such equipment.

1.6 These requirements do not cover wires and cables intended to be permanently installed in a building in accordance with Article 800 of the National Electrical Code, NFPA 70.

1.7 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard does not comply with this standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the products covered by this standard.

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