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UL 9990

**Outline of Investigation for Information and Communication Technology
(ICT) Power Cables**

Issue Number: 2

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Summary of Topics

This second issue of the Outline of Investigation for Information and Communication Technology (ICT) Power Cables, UL 9990, covers Information and Communication Technology cable assemblies commonly used for providing power, with or without communications, to low powered electronic devices.

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INTRODUCTION

1 Scope

1.1 This Outline of Investigation covers the power handling capabilities of Information and Communication Technology (ICT) cable assemblies when used for powering or charging applications. The signal transmission performance of the cable assemblies is not within the scope of these requirements.

1.2 These cable assemblies are intended to be used only in the output of a power source class 2 (PS2) and electrical energy source class 1 (ES1), or a limited power source, as determined in accordance with the Standard for Safety for Audio/Video, Information, and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1. These circuits do not exceed 60 V DC, 8.0 amperes and 100 watts.

Note: These circuits are sometimes referred to as “low voltage, limited-power circuits”, “low voltage, limited-energy circuits” or “NEC® Class 2 circuits”.

1.3 ICT cable assemblies may also be required to comply with industry specifications applicable to their particular configuration and use. Compliance with these specifications is not within the scope of these requirements.

2 Reference Publications

Any undated reference to a code or standard appearing in the requirements of this Outline shall be interpreted as referring to the latest edition of that code or standard.

ASTM

ASTM E230/E230M

Standard Specification and Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples

EIA

EIA-364-38

Cable Pull-Out Test Procedure for Electrical Connectors

EIA-364-41

Cable Flexing Test Procedure for Electrical Connectors

UL (Underwriters Laboratories Inc.)

UL 13

Power-Limited Circuit Cables

UL 444

Communications Cables

UL 758

Appliance Wiring Material

UL 746C

Polymeric Materials – Use in Electrical Equipment Evaluations

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