UL 2930

STANDARD FOR SAFETY

Cord-and-Plug-Connected Health Care Facility Outlet Assemblies

UL Standard for Safety for Standard for Cord-and-Plug-Connected Health Care Facility Outlet Assemblies, UL 2930

First Edition, Dated August 11, 2023

Summary of Topics

The is the First edition of ANSI/UL 2930, Standard for Cord-and-Plug-Connected Health Care Facility Outlet Assemblies, dated August 11, 2023 and applies to indoor-use-cord-and-plug-connected health care facility receptacle outlet assemblies rated 250 V AC or less and 20 Amperes or less.

The new requirements are substantially in accordance with Proposal(s) on this subject dated May 12, 2023.

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This ANSI/UL Standard for Safety consists of the First Edition.

The most recent designation of ANSI/UL 2930 as an American National Standard (ANSI) occurred on August 11, 2023. 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 indoor-use cord-and-plug-connected Health Care Facility receptacle outlet assemblies (HCOA) rated 250 V AC or less and 20 Amperes or less. HCOA are for use as a movable power supply connection for cord-and-plug-connected medical electrical utilization equipment in accordance with the National Electrical Code, NFPA 70, Article 517 Health Care Facilities, and with NFPA 99, Health Care Facilities Code, for use in Category 2 (General Patient Care) Spaces or Category 1 (Critical Patient Care) Spaces, including Patient Care Vicinities equipped with Patient Equipment Grounding Points and an Attachment Plug with an Integral Patient Equipment Grounding Connection.

1.2 HCOAs are intended to supply cord-and-plug-connected medical equipment complying with applicable requirements of the:

a) Standard for Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1;

b) Medical electrical equipment – Part 1: General requirements for basic safety and essential performance, IEC 60601-1; and

c) Medical Electrical Equipment – Part 1-2: General Requirements for basic safety and essential performance – Collateral standard: Electromagnetic disturbances – Requirements and tests, AAMI 60601-1-2.

1.3 These requirements cover HCOA consisting of an NEMA WD 6-configuration Hospital Grade attachment plug and a length of non-detachable flexible cord terminated in an enclosure in which are mounted NEMA WD 6-configuration Hospital Grade individual receptacle outlets (duplex or single) which are connected conductively to an integral patient equipment grounding terminal or jack provided for user connection of a discrete patient equipment grounding conductor to Patient Equipment Grounding Points, installed in the Patient Care Vicinities of a Health Care Facility.

1.4 These requirements also cover an HCOA provided with an attachment plug with an integral patient equipment grounding connection. Once inserted into a duplex receptacle outlet, this equipment provides the Patient Equipment Grounding Point connection, in the Patient Care Vicinities of a Health Care Facility.

1.5 An HCOA is not intended for Home Health Care Use.

1.6 These requirements do not cover cord-connected, Relocatable Power Taps (RPT) intended only for indoor use as a temporary extension of a grounding alternating-current branch circuit for general use, covered by the Standard for Relocatable Power Taps, UL 1363. RPT are not suitable for use in Category 2 (General Patient Care) Spaces or Category 1 (Critical Patient Care) Spaces or Patient Care Vicinities.

1.7 These requirements do not cover cord-connected, Special Purpose Relocatable Power Taps (SPRPT); covered by the Outline of Investigation for Special Purpose Relocatable Power Taps, UL 1363A. SPRPT are power distribution components intended to supply power to plug-connected components of movable equipment assemblies that are rack, table, or pedestal-mounted. SPRPT are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The SPRPT shall be an integral part of the equipment assembly and permanently attached to the equipment assembly only by those qualified to assemble medical electrical equipment systems compliant with Medical electrical equipment – Part 1: General requirements for basic safety and essential performance, IEC 60601-1. SPRPT are not suitable for use in Patient Care Vicinities.

1.8 These requirements do not cover cord-connected, Furniture Power Distribution Units (FPDU), intended for indoor use that provide power for and are intended to be installed in furnishings. FPDU are covered by the Standard for Furniture Power Distribution Units, UL 962A.

2 Use

2.1 A HCOA is intended to be connected temporarily to a permanently-installed branch circuit Hospital Grade receptacle outlet and, where the health care facility's governing body has determined that use of Patient Equipment Grounding Points are essential in Patient Care Vicinities, to patient equipment grounding points permanently installed in the patient care spaces of a Health Care Facility.

2.2 A HCOA is intended for cord-and-plug connection of medical utilization equipment that has been authorized by the Health Care Facility in which the HCOA is deployed and the medical utilization equipment has been verified as having touch and leakage current suitably low for patient care use.

2.3 A HCOA is intended to be mounted to benches, stands, carts, or other areas containing multiple cord-and-plug-connected medical electrical utilization equipment that is intended and authorized for use in that patient care use location.

2.4 A HCOA is not intended to be series-connected ("daisy chained") to:

a) Other HCOA's;

b) Relocatable Power Taps;

c) Furniture Power Distribution Units, or;

d) Extension cords.

A HCOA is not intended to be connected via a grounding adapter or via a current tap to a receptacle outlet.

2.5 A HCOA is not intended to be placed directly upon the floor of a patient care space.

2.6 A HCOA is not intended to be used within Hazardous (Classified) Anesthetizing Locations or any other Hazardous (Classified) Locations as defined by NFPA 70.

3 Components

3.1 Except as indicated in 3.2, a component of a product covered by this standard shall comply with the requirements for that component.

3.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

3.3 A component shall be used in accordance with its rating established for the intended conditions of use.

3.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.