UL 4128

Outline of Investigation for Intercell and Intertier Connectors for Use in Electrochemical Battery System Applications

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Summary of Topics

The Sixth Issue of the Outline of Investigation for Intercell and Intertier Connectors for Use in Electrochemical Battery System Applications, UL 4128, has been revised to an increased voltage.

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INTRODUCTION

1 Scope

1.1 These requirements cover mating halves of intercell and intertier connectors for use in electrochemical battery system applications. Intercell and intertier connectors consist of a cable connector, cable, and mating inlet intended for use in electrochemical battery system applications. These connectors are rated up to a 3,000 V dc or less, and not intended for connection or disconnection under load conditions. They are intended for assembly to copper or copper alloy conductors.

1.2 These devices are not intended for use in hazardous locations.

1.3 These devices are intended for factory or field assembly to copper or copper alloy conductors rated 90 °C (194 °F) or higher and may be rated for use in either outdoor or indoor locations.

1.4 This Outline does not directly apply to the following devices, but may be used to supplement the requirements within these standards when a device is evaluated to these standards:

a) Devices produced integrally with flexible cord or cable that is covered by the Standard for Cord Sets and Power-Supply Cords, UL 817;

b) Devices intended for connection to the branch circuit, such as attachment plugs, cord connectors, receptacles, inlets, and outlets that are covered by the Standard for Attachment Plugs and Receptacles, UL 498;

c) Devices solely intended for direct connection to the branch circuit in accordance with NFPA 70®, *National Electrical Code*® (NEC®) and that are provided with contacts of the pin and sleeve type, that are covered by the Standard for Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type, UL 1682;

d) Devices consisting of wiring terminals and supporting blocks intended for the connection of wiring that are covered by the Standard for Terminal Blocks, UL 1059;

e) Devices such as wire connectors and soldering lugs that are covered by the Standard for Wire Connectors, UL 486A-486B; the Standard for Splicing Wire Connectors, UL 486C; or the Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E;

f) Devices such as single pole locking-type separable connectors that are covered by the Standard for Single Pole Locking-Type Separable Connectors, UL 1691.

2 Components

2.1 A component of a product covered by this Outline shall:

a) Comply with the requirements for that component as specified in this Outline;

b) Be used in accordance with its rating(s) established for the intended conditions of use; and

c) Be used within its established use limitations or conditions of acceptability.

2.2 A component of a product covered by this Outline is not required to comply with a specific component requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product;

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