



UL 1977

STANDARD FOR SAFETY

Component Connectors for Use in Data, Signal,
Control and Power Applications

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UL Standard for Safety for Component Connectors for Use in Data, Signal, Control and Power Applications, UL 1977

Third Edition, Dated January 7, 2016

SUMMARY OF TOPICS

These new edition to UL 1977 includes the revision of the thickness requirement for flammability test specimens

The revised requirements are substantially in accordance with Proposal(s) on this subject dated December 4, 2015.

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

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JANUARY 7, 2016

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UL 1977

**Standard for Component Connectors for Use in Data, Signal, Control and
Power Applications**

First Edition – December, 1995
Second Edition – December, 2007

Third Edition

January 7, 2016

This UL Standard for Safety consists of the Third Edition.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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Standards for Components.....	A1
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INTRODUCTION

1 Scope

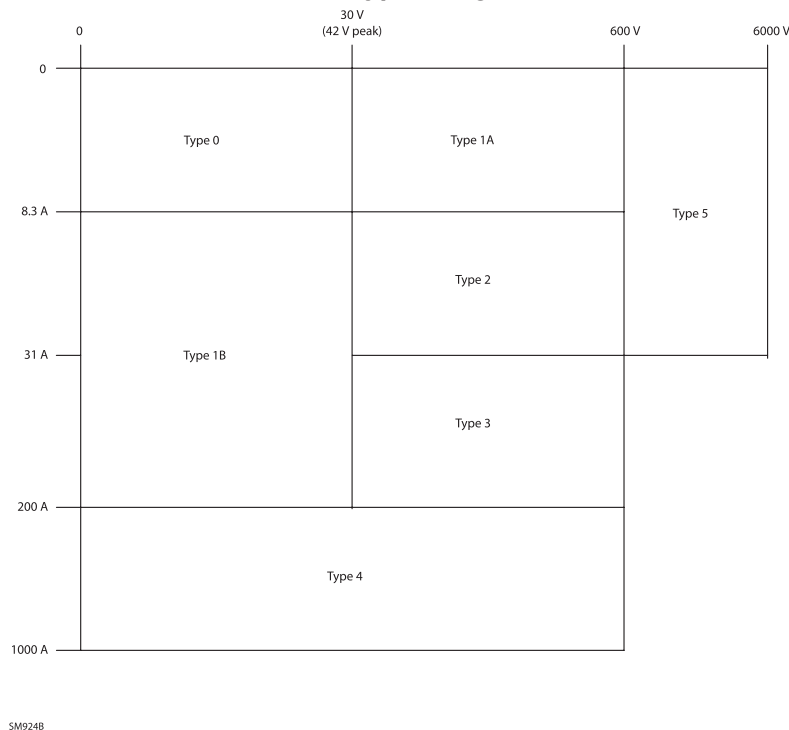
1.1 These requirements cover single and multipole connectors, intended for factory assembly to copper or copper alloy conductors or printed wiring boards, for use in data, signal, control and power applications within and between electrical equipment.

1.2 These requirements apply to devices categorized as follows (See Figure 1.1):

- a) Type 0 rated less than 8.3 A and less than 30 V rms (42 V peak);
- b) Type 1A rated less than 8.3 A and from 30 V up to and including 600 V ac or dc, or both;
- c) Type 1B rated from 8.3 A up to and including 200 A, and less than 30 V rms (42 V peak);
- d) Type 2 rated from 8.3 A to less than 31 A and from 30 V up to and including 600 V ac or dc or both;
- e) Type 3 rated from 31 A up to and including 200 A and from 30 V up to and including 600 V ac or dc, or both.
- f) Type 4 rated from greater than 200 A up to and including 1000 A, and up to and including 600 V ac or dc.
- g) Type 5 rated less than 31 A and from 601 V up to and including 6000 V ac or dc, or both.

Type designations used in this Standard only serve as a guide to determine appropriate requirements, and do not represent an assigned rating. A device without an assigned current rating is considered to be either a Type 0 or Type 1A depending upon the assigned voltage rating.

Figure 1.1
Connector type designations



1.3 This standard 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 are 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 the National Electrical Code, NFPA 70, 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 intended for use with telecommunications networks, that are covered by the Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1, or the Standard for Communications Circuit Accessories, UL 1863;
- f) Devices such as wire connectors and soldering lugs that are covered by the Standards for Wire Connectors, UL 486A-486B; Splicing Wire Connectors, UL 486C; or Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E;