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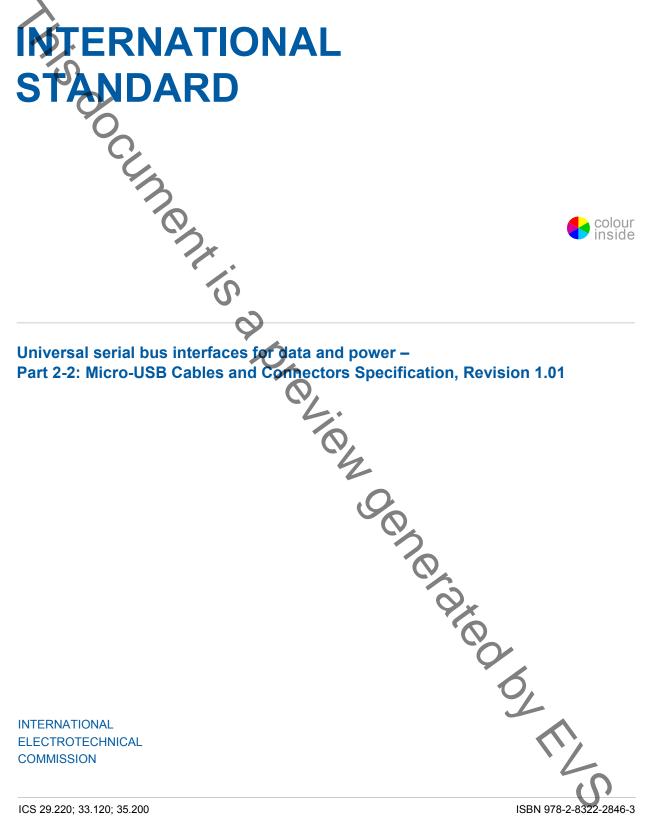
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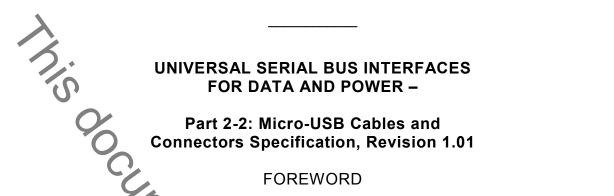


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The text of this standard is based on documents prepared by the USB Implementers Forum (USB-IF). The structure and editorial rules used in this publication reflect the practice of the organization which submitted it.

The text of this standard is based on the following documents:

CDV	Report on voting
100/2332/CDV	100/2435/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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INTRODUCTION

The IEC 62680 series is based on a series of specifications that were originally developed by the USB Implementers Forum (USB-IF). These specifications were submitted to the IEC under the auspices of a special agreement between the IEC and the USB-IF.

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IEC 62680-1-1, Universal Serial Bus interfaces for data and power – Part 1-1: Common components – USB Battery Charging Specification, Revision 1.2

IEC 62680-2-1, Universal Serial Bus interfaces for data and power Part 2-1: Universal Serial Bus Specification, Revision 2.0

IEC 62680-2-2, Universal Serial Bus interfaces for data and power – Part 2-2; USB Micro-USB Cables and Connectors Specification, Revision 1.01

IEC 62680-2-3, Universal Serial Bus interfaces for data and power – Part 2-3: Universal Serial Bus Cables and Connectors Class Document Revision 2.0

This part of the IEC 62680 series consists of several distinct parts:

• the main body of the text, which consists of the original specification and all ECN and Errata developed by the USB-IF.

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Note: All Engineering Change Notice's (ECN) and Errata documents as of September 01, 2012 that pertain to this core specification follow the last page of the specification starting on page 39.

Universal Serial Bus Micro-USB Cables and Connectors **Specification**



Revision 1.01 April 4, 2007

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Revision History

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UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER –

Part 2-2: Micro-USB Cables and Connectors Specification, Revision 1.01



1.1 General

USB has become a popular interface for exchanging data between cell phone and portable devices. Many of these devices have become so small it is impossible to use standard USB components as defined in the USB 2.0 specification. In addition the durability requirements of the Cell Phone and Portable Devices market exceed the specifications of the current interconnects. Since Cell Phones and other small Portable Devices are the largest market potential for USB, this specification is addressing this very large market while meeting all the requirements for electrical performance within the USB 2.0 specification.

1.2 Objective of the Specification

The purpose of this document is to define the requirements and features of a Micro-USB connector that will meet the current and future needs of the Cell Phone and Portable Devices markets, while conforming to the USB 2.0 specification for performance, physical size and shape of the Micro-USB interconnect.

This is not a stand-alone document. Any aspects of USB that are not specifically changed by this specification are governed by the USB 2.0 Specification and USB On-The-Go Supplement.

1.3 Intended Audience/Scope

Cell phone and Portable Devices have become so thin that the current Mini-USB does not fit well within the constraints of future designs. Additional requirements for a more rugged connector that will have durability past 10 000 cycles and still meet the USB 2.0 specification for mechanical and electrical performance was also a consideration. The Mini-USB could not be modified and remain backward compatible to the existing connector as defined in the USB OTG specification.

1.4 Related Documents

USB 2.0

USB OTG Supplement

2 Acronyms and Terms

This chapter lists and defines terms and abbreviations used throughout this specification

A-Device A device with a Type-A plug inserted into its receptacle. The A-device supplies power to VBUS and is host at the start of a session. If the A-device is On-The-Go, it may relinquish the role of host to an On-The-Go B-device under certain conditions,