

USB Type-C ENGINEERING CHANGE NOTICE

Title: VBUS Capacitance

Applied to: Universal Serial Bus Type-C Cable and Connector Specification Release 1.1, April 3, 2015

Brief description of the functional changes:
Change the range of VBUS bypass capacitance from 9nF up to 500nF, to 8nF up to 500nF, the proposed change is to accommodate bypass capacitance of capacitor with 10nF +/- 20%

Benefits as a result of the changes:
As the result of the change, a 10nF capacitor with +/-20% tolerance will pass the requirement.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
N/A

An analysis of the hardware implications:
N/A

An analysis of the software implications:
N/A

An analysis of the compliance testing implications:
Measurement was done to evaluate the proposed change using compliance test fixture.

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Actual Change

(a). Section 3.7.3.3.2, Page 84-85

From:

For fully featured cables, the range of VBUS bypass capacitance shall be 9nF up to 500nF as any of the values in the range is equally effective for high-speed return-path bypassing.

To:

For fully featured cables, the range of VBUS bypass capacitance shall be 8nF up to 500nF as any of the values in the range is equally effective for high-speed return-path bypassing.