USB Type-C ENGINEERING CHANGE NOTICE

Title: CC Max DC Resistance
Applied to: USB Type-C Specification Release 1.1, April 3, 2015

Brief description of the functional changes:
Define the max CC wire DC resistance to be 15 ohm

Benefits as a result of the changes:
Support the new function of Power Fast Role Swap with the new Power Fast Role Swap transmit driver resistance parameters defined in USB Power Delivery Spec Rev 3.0 Table 5-18

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
Likely no impact. The proposed value is likely the practical upper bound for a cable with the max latency of 26 ns among the known wire metal materials.

An analysis of the hardware implications:
None

An analysis of the software implications:
None

An analysis of the compliance testing implications:
The CC wire DC resistance measurement shall be added into the Type C Compliance tool.

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Actual Change

(a). From, Section 3.7.3.3, Page 82

The CC wire shall have a characteristic impedance of 32 Ω to 93 Ω.

(a). To, Section 3.7.3.3, Page 82

The CC wire shall have a characteristic impedance of 32 Ω to 93 Ω. The CC wire DC resistance of the cable assembly shall not exceed 15 Ω.