

USB Type-C ENGINEERING CHANGE NOTICE

Title: Cable Delay

Applied to: USB Type-C Specification Release 1.1, April 3, 2015

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| Brief description of the functional changes: |
| Change the max USB D+/D- signal propagation delay from 20ns to 26ns in USB Type-C to Type-C Passive Cable Assemblies |

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| Benefits as a result of the changes: |
| Consistent with Section 7.1.16 Cable Delay in USB Spec Rev. 2.0, April 27 2000 |

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| An assessment of the impact to the existing revision and systems that currently conform to the USB specification: |
| No impact. Existing cables meeting the 20ns delay requirement will meet 26 ns requirement as well. |

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| An analysis of the hardware implications: |
| None |

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| An analysis of the software implications: |
| None |

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| An analysis of the compliance testing implications: |
| None |

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Actual Change

(a). From, Section 3.7.3.4, Table 3-24, Page 86

Table 3-24 USB D+/D– Signal Integrity Requirements

| Items | Descriptions and Procedures | Requirements |
|-------------------|--|---|
| Propagation Delay | EIA 364-103 The purpose of the test is to verify the end-to-end propagation of the D+/D– lines of the cable assembly. | 20 ns max. 400 ps rise time (20%-80%). |

(a). To, Section 3.7.3.4, Table 3-24, Page 86

Table 3-24 USB D+/D– Signal Integrity Requirements for **USB Type-C to Type-C Passive Cable Assemblies**

| Items | Descriptions and Procedures | Requirements |
|-------------------|--|--|
| Propagation Delay | EIA 364-103 The purpose of the test is to verify the end-to-end propagation of the D+/D– lines of the cable assembly. | 26 ns max. 400 ps rise time (20%-80%). |