

USB Type-C ENGINEERING CHANGE NOTICE

Title: USB4 Gen3/Gen4 Integrated Crosstalk Update
Applied to: USB Type-C Specification Release 2.3, Oct 2023

Brief description of the functional changes proposed:

For USB4 Gen3/Gen4 cable IL.

Benefits as a result of the proposed changes:

Add IL limit for 12.8GHz

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

None

An analysis of the hardware implications:

None

An analysis of the software implications:

The compliance tool Get-iPar to be updated

An analysis of the compliance testing implications:

None

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Actual Change Requested

(a). 3.7.2.5.1 Insertion Loss Fit at Nyquist Frequencies (Normative – USB4 Gen3/Gen4)

From Text:

The insertion loss fit at Nyquist frequency (ILfitatNq) shall meet the following requirements:

- ≥ -1 dB at 100 MHz,
- ≥ -4.2 dB at 2.5 GHz,
- ≥ -6 dB at 5 GHz,
- ≥ -7.5 dB at 10 GHz,
- ≥ -9.3 dB at 12.5 GHz, and
- ≥ -11 dB at 15 GHz.

To Text:

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- ≥ -9.3 dB at 12.5 GHz,
- ≥ -9.5 dB at 12.8 GHz, and
- ≥ -11 dB at 15 GHz.