PD Peak unbalance specification v110

Info (not part of baseline)

Subclause 145.3.8.10 ("PD pair-to-pair current unbalance") specifies the maximum pair current for PDs under unbalance 4-pair operation. It only specifies continuous unbalance current. Peak unbalance requirements are not specified.

- For time durations shorter than T_{CUT-2P} min, the PD must not exceed the peak unbalance current $I_{Peak-2P-unb}$.
- The "under all operating states" is a redundant qualifier.
- The "all common source voltages" could be interpreted as "all of them at the same time" which is not what we mean.
- Now that we have added a spec for $I_{Con-2P-unb}$ for all Classes, we can remove "assigned to Class 5 or higher". $\sqrt{}$
- $-I_{\text{Con-2P}}$ is a PSE parameter, not usable in this section. It is replaced by the equivalent P_{Class} PD-2P/ V_{PD} .

is tested by 145.3.8.10 CONDITIONS. You could say that for halance lcon-2P_unb too.

145.3.8.10 PD pair-to-pair current unbalance

Under all operating states, s Single-signature PDs assigned to class 5 or higher shall not exceed $I_{Con-2P-unb}$ for longer than T_{CUT-2P} min, and shall not exceed $I_{Peak-2P-unb}$, as defined in Table 145–16 on any pair when PD PI pairs of the same polarity are connected to all possible common source voltages any voltage in the range of V_{Port_PSE-2P} through two common mode resistances, R_{source_min} and R_{source_max} , as defined in Equation (145–32) and shown in Figure 145–34.

Under all operating states, d Dual-signature PDs shall not exceed $\frac{V_{Con-2P}}{V_{Con-2P}}$ as defined in Equation (145–8) for longer than V_{CUT-2P} min, and shall not exceed V_{Peak_PD-2P}/V_{PD} , as defined in Table 145–16 on any pair when PD PI pairs of the same polarity are connected to all possible combon source voltage any voltage in the range of V_{Port_PSE-2P} through two common mode resistances, V_{Source_min} and V_{Source_max} , as defined in Equation (145–32) and shown in Figure 145–34.

This is odd representation of Icon-2P. Try; Icon-2P and move the equation down with the normal format and where list e.g. ICon-2P=Pclass_PD_2P/Vpd and move it down .
See darshan_12_0317.pdf

We need new equation number and may be a "where list"

This is not accurate. It is both PSE and PD paeameter. Specifically if it