

145.3.5 PD signature configurations

A single-signature PD shall present a valid detection signature, as defined in Table 145–21, on a given Mode in all 2-pair configurations per Table 145-20 when no voltage or current is applied ~~to~~across the other Mode, and shall not present a valid detection signature on the given Mode in all 2-pair configurations per Table 145-20 when any voltage in the range of 3.7 V to 57 V is applied ~~to~~across the other Mode or any current greater than 124 μ A is ~~applied to~~drawn from the negative pair of the other Mode. These requirements apply to both Mode A and Mode B and apply when the positive pairs of both Modes are either tied together or separated.

NOTE—A valid detection signature meets every requirement in Table 145–21 across all specified conditions. A failure under any allowed condition is considered “not a valid signature.”

A dual-signature PD shall present a valid detection signature, as defined in Table 145–21, on a given Mode in all 2-pair configurations per Table 145-20 when, regardless of any voltage between 0 V and 57 V applied ~~to~~across the other Mode. This requirement applies to both Mode A and Mode B and apply when the positive pairs of both Modes are either tied together or separated.