Updating the base line text from approved on May 2014 with the proposed following updates :

33.1.4.3 Pair Operation Channel Requirement for Pair to Pair Resistance Unbalance

4P pair operation requires the specification of resistance ~~unbalance~~ difference between each two pairs of the channel, not greater than ~~200~~ 100 milliohms or resistance unbalance of 7.5% whichever is greater. Resistance unbalance between the channel pairs is a measure of the difference of resistance of the common mode pairs of conductors used for power delivery. Channel pair to pair resistance unbalance is defined by equation 33-1.1:

$$\left(\frac{R_{ch\_\max} - R_{ch\_\min}}{R_{ch\_\max} + R_{ch\_\min}}\right) \times 100\% \qquad \text{33-1.1}$$

Channel pair to pair resistance difference is defined by equation 33-1.2:

$$R_{ch\_\max} - R_{ch\_\min} \qquad \text{33.1.2}$$

Where:

Rch_max is the sum of channel pair elements with highest common mode resistance.

Rch_min is the sum of channel pair elements with lowest common mode resistance

Common mode resistance is the resistance of the two wires in a pair (including connectors), connected in parallel.

- NOTE: The pair-to-pair resistance unbalance values are preliminary working numbers used for characterizing cabling while awaiting input from ISO/IEC SC25 (developing the second edition of ISO/IEC TR 29125) and TIA TR42 (developing a revision of TIA TSB-184). These groups have works in progress that are expected to include pair-to-pair resistance unbalance specifications suitable for reference.