

Table 33-1 reorg (comment #4)

G. Zimmerman

CME Consulting / Linear Tech &
Commscope

January 2015

Table 33-1 in Draft 0.2

Editor's Note: Type 4 System Parameters are TBD. They will be added in the future.

Table 33-1—~~Type 1 and Type 2~~ System parameters

Parameter	Symbol	Units	Type 1 value	Type 2 or Type 3 value	Additional information
Nominal highest DC current per pair	I_{Cable}	A	0.350	0.600 ¹	See section <u>TBD that covers inter-pair unbalance</u>
Channel <u>pair-set</u> maximum DC pair loop resistance	R_{Ch}	Ω	20.0	12.5	
Minimum cable type			twisted-pair cabling per 14.4 and 14.5 ²	Class D	See , 33.1.4.2

¹In Type 3, 60W Operation, the current per 2-pair might be impacted by pair to pair system resistance unbalance. See details in Section TBD.

²Class D recommended.

Table 33-1 rearranged

Table 33-1 System Parameters vs. System Type

System Type (Lowest type of PSE & PD)	Nominal highest current per pair (I_{cable}, A)	Channel Pair-set maximum DC loop resistance (R_{chan}, Ω)	Minimum Cabling Type³
Type 1	0.350	20.0	Twisted-pair Cabling per 14.4 and 14.5 (Class D recommended)
Type 2	0.600	12.5	Class D (ISO/IEC 11801:1995)
Type 3	0.600 ¹	12.5	Class D (ISO/IEC 11801:1995)
Type 4	TBD	TBD	TBD

¹ In Type 3, 60W Operation, the current per pair-set might be impacted by pair-to-pair system resistance unbalance. See details in Section TBD.

² See Section 33.1.4.2

³ See informative Annex TBD for inter-pair unbalance

Other issues to consider fixing

- Reorganization did not fix the problems, only made the information clearer
 - We describe DC loop resistance per pair, but most industry uses DC loop resistance per conductor – so we have to explain it – why not just fix it here.
 - This entire table appears informative, why not mark it so. (or else make clear what is normative here)