

MB/ NC <sup>1</sup>	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment <sup>2</sup>	Comments	Proposed change	Observations of the secretariat
802.3-1	1015	5.3.4.1	Figure 2	T	The “~460” number in the bottom right boxes is incorrect. The maximum current per conductor for 802.3 compliant PDs is 433mA.	Change “~460” to “433”	
802.3-2	1022	5.3.4.1		E	The editor’s note asks if the intention is to not allow RP1 or RP2 where 11801-2, -3, -4, and -6 apply. It is the IEEE 802.3 WG understanding that this is correct, meaning one must use RP3 to support.	Delete the editor’s note.	
802.3-3	1024	5.3.4.2		T	This comment is a consolidated solution for the comments 802.3-4 through 802.3-13. The proposed change is the resulting text from accepting all these comments. The comments are entered separately to explain all the requested changes and also to allow SC25 WG3 to consider each change individually.	<p>Replace 5.3.4.2 with:</p> <p><b>5.3.4.2 Remote powering for 1 pair balanced cabling</b></p> <p>For 1 pair balanced cabling in accordance with the ISO/IEC 11801 series, remote powering equipment shall not supply more than 2000 mA per conductor (i.e. <math>i_c \leq 2000</math> mA).</p> <p>There is only one category of single pair cabling for remote power:</p> <p>Category RP3-1P: attachment of the remote powering equipment at a distributor is unrestricted subject to the limit of <math>i_c \leq 2000</math> mA.</p> <p>Category RP3-1P installations require planning and installation practices (see Clauses 7 and 8) together with documentation and administrative controls during subsequent extensions of the cabling (see 9.2.2.4.1).</p> <p>For installation of cabling in accordance with ISO/IEC 11801-2, ISO/IEC 11801-3, ISO/IEC 11801-4, ISO/IEC 11801-5 and ISO/IEC</p>	

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						11801-6, the planning, installation and administration requirements of Category RP3-1P (OR: this clause) shall be applied.  (this text is attached below for convenience)	
802.3-4	1041	5.3.4.2		T	The IEEE 802.3 WG agrees that there is no legacy 1P cabling and RP1-1P and RP2-1P are unnecessary.	Delete the editor's note	
802.3-5	1026	5.3.4.2		T	The IEEE 802.3 WG agrees with the editor's note on line 1041. This would mean that RP1-1P and RP2-1P are deleted. The proposed changes remove the text associated with RP1-1P and RP2-1P.	Delete on line 1027 "and the installations shall be designated in one of the following Categories:", and replace with a period to close the sentence.  Delete lines 1028 – 1034 (RP1-1P)  Delete lines 1052 – 1059 (RP2-1P)	
802.3-6	1036	5.3.4.2	Equation (1)	T	First, the equation is mislabelled as (1), conflicting with line 998.  But further, the equation is unnecessary. As we are talking 1 pair cable, N is always 2 and n is always 2. Therefore $i_c = i_{c-average}$ , resulting in no use for two terms for single pair.	Delete lines 1034 - 1040	
802.3-7	1060	5.3.4.2		E	If there are no categories, RP3-1P can be replaced with anything else, perhaps "single pair cabling". It is understood that it is convenient to have a category to remove any ambiguity when talking about the cabling. A rejection of this comment will be understood if that's the case.	Replace RP3-1P with "single pair cabling" throughout the document (search and replace).	
802.3-8	1065	5.3.4.2		E	Table 1 should be Table 2 (but only if this table stays, next comment will call for deleting the table).	Change "1" to "2"	
802.3-9	1067	5.3.4.2	Table 2	T	With the deletion of all but one cable type, this table is no longer necessary.	Delete Table 2.	



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**FOR COMMENT 802.3-14:**

Class	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Maximum Power at input to powered device (W)	0.5	1	3	5	1	3	5	10	30	50	1.23	3.2	8.4	7.7	20	52	
No of remote powering pairs																1	
i_c (mA)	101	227	249	471	97	339	215	461	735	1360	92	240	632	231	600	1579	
i_c-average (mA)	N/A for single pair powering																
Max Loop resistance (Ω)	6									6.5	65	25	9.5	65	25	9.5	Max Power*
Supported by RP1-1P	Yes	No	No	No	Yes	No	Yes	No	No	No	Yes	No	No	No	No	No	5
Supported by RP2-1P	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	No	No	10
Supported by RP3-1P	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	52
Cable Sharing Supported by Class D to II (0.75A)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	30
Cable Sharing Supported by Class D to II (0.75A) in RP3 Installation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	No	No	10

\* Maximum power has Resistance restrictions (Not always at 65 Ohm)

## FOR COMMENT 802.3-3

### 5.3.4.2 Remote powering for 1 pair balanced cabling

For 1 pair balanced cabling in accordance with the ISO/IEC 11801 series, remote powering equipment shall not supply more than 2000 mA per conductor (i.e.  $i_c \leq 2000$  mA).

There is only one category of single pair cabling for remote power:

Category RP3-1P: attachment of the remote powering equipment at a distributor is unrestricted subject to the limit of  $i_c \leq 2000$  mA.

Category RP3-1P installations require planning and installation practices (see Clauses 7 and 8) together with documentation and administrative controls during subsequent extensions of the cabling (see 9.2.2.4.1).

For installation of cabling in accordance with ISO/IEC 11801-2, ISO/IEC 11801-3, ISO/IEC 11801-4, ISO/IEC 11801-5 and ISO/IEC 11801-6, the planning, installation and administration requirements of Category RP3-1P (OR: this clause) shall be applied.