



## IEEE 802.3 Ethernet Working Group

March 15, 2007

From: IEEE 802.3 Ethernet Working Group

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Subject: Acknowledgment of Liaison Communication and Clarification Request on De-Rating Guidance

Action: Information

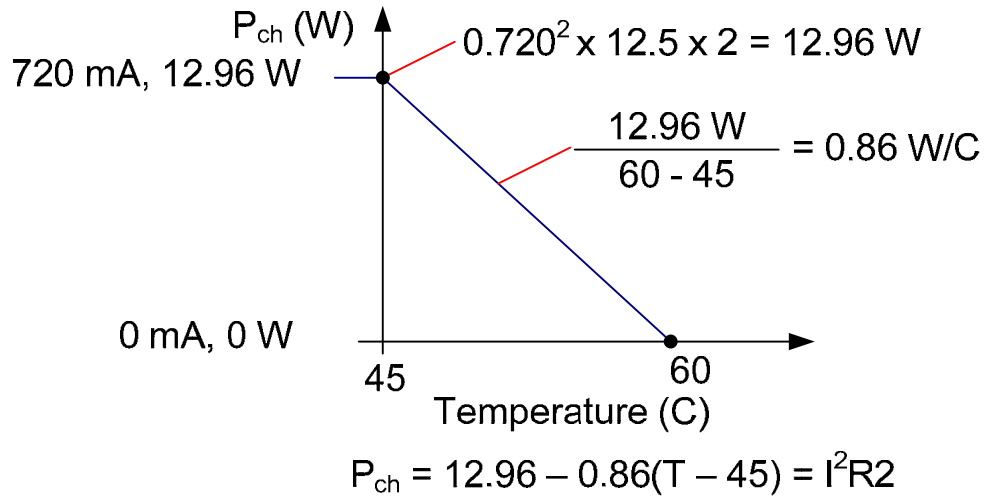
Thank you for the feedback that was presented by Ms. Rybinski at our March Plenary.

We look forward to your report in June regarding the project details for telecommunications cabling current carrying capacity related specifications.

Thank you for your technical contribution presented to us in January 2007 ([http://www.ieee802.org/3/at/public/jan07/0107\\_TR42\\_1.pdf](http://www.ieee802.org/3/at/public/jan07/0107_TR42_1.pdf)). Your recommendations and contribution were carefully reviewed and discussed by IEEE 802.3at members. Based upon our discussions, we have identified several issues that we request your opinion on. Your feedback on the following items would be greatly appreciated:

(1) We have noticed an inconsistency between the temperature versus current specification in our existing PoE (IEEE Std 802.3-2005, Clause 33) Standard and your recommended temperature versus current carrying capacity de-rating profile. In particular, the IEEE Std 802.3-2005, Clause 33 referenced cable specification of 350 mA (175 mA per conductor) of current up to and including 60 degrees C over 2 pairs. In your opinion, will the temperature rise that may be associated with this current adversely affect the transmission performance of category 3 and higher rated cabling in typical installation scenarios?

(2) Please see the attached graph. Does this graph accurately reflect your de-rating guidance per the technical contribution



Regards,

Robert M. Grow  
 Chair, IEEE 802.3 Ethernet Working Group