

TIA TR-42 Liaison to IEEE

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July, 2007

San Francisco, CA

TIA TR-42 Meetings

- **June 4 - 6, 2007 in Halifax, CAN**
 - **Addressed the following IEEE liaisons:**
 - **Request for clarification: de-rating guidance**
 - **Un-mating connectors under load**
 - **Discussed proposals for a TIA current carrying capacity specification**
- **July 10 - 11, 2007 in Mystic, CT**
 - **Task to resolve category 6A ballot comments**

TR-42 Liaison – De-Rating

The purpose of this letter is to:

- 1) Respond to request for comment on temperature vs. current inconsistency between POE and proposed TIA profile**
- 2) Confirm temperature vs. current de-rating guidance**

TR-42 Liaison –De-Rating, cont.

Proceed to an online review of the liaison letter

TR-42 Liaison - Unmating

“Thank you for your liaison dated November 16th, 2006. It is our understanding that the life expectancy of connecting hardware when unmated under load is under discussion in IEC SC48B, the subcommittee responsible for the IEC 60603-7 series of modular connectors. Since TIA references IEC 60603-7 for connecting hardware reliability performance, we intend to defer to their final recommendations.”

TIA Current Carrying Spec

- 1) Members felt UL could publish current carrying specifications faster than IEC could**
- 2) Propose that TIA standard reference back to a UL standard**
- 3) Draft 0.1 of current carrying specifications was reviewed online**
- 4) Document should publish as a TSB**

TIA Liaison to UL

“TIA TR42 has received several liaison requests from IEEE 802.3 to develop telecommunications cabling specifications for the support of the Power over Ethernet Plus (PoEP) application. One of the requests is to specify a higher current capacity for balanced twisted-pair cabling. We have done some preliminary modeling and measurements that indicate that such higher currents may lead to a temperature that may exceed 60° C under certain environmental and installation conditions in bundled cable configurations...

TIA Liaison to UL, cont.

...Since this issue affects temperature rating of cables, this may require an amendment to an existing standard (UL 60950, Clause 6.3), or the creation of a new document. Accordingly, we think it is prudent to cooperate with your organization to develop current capacity capabilities for bundled cables.

We look forward to cooperating in developing cabling standards that will enable and support this new application from IEEE.”

SP-3-4426-AD10-D, d7.0

- **AD10 (category 6A)**
 - **5th ballot (draft 7) closed on June 26, 2007**
 - **13 Approve, 8 Approve with Comments, 5 Do Not Approve**
 - **Comments tasked for resolution during an interim meeting in Mystic, CT on July 10 -11**
 - **Verbal update on progress will be provided in San Francisco**

Upcoming TIA Meetings

TR-42 Plenary Meeting

September 24 - 28, 2007

Palm Springs, CA

www.tiaonline.org

Pending Palm Springs Agenda

- **TIA current carrying capacity specification**
- **TIA test fixturing specification**
- **Balance specification**
- **Category 6A default ballot comment resolution (???)**
- **'568-C.2 development**

'568-C Development

- **SP-3-0177-A: (pending '568-C.0)**
 - Approved for third industry ballot
- **SP-3-4425-RV3-A: (pending '568-C.1)**
 - Approved for third industry ballot
- **SP-3-4426-RV3: (pending '568-C.2)**
 - Balloting to begin after AD10 publication
- **SP-3-3894-RV3-A: (pending '568-C.3)**
 - Approved for default ballot – 7 issues

Thank you

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