

TIA TR-42 Liaison to IEEE 802.3

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Introduction to TIA

- **Telecommunications Industry Association**
- **www.tiaonline.org**
- **TR-42: Defines mechanical and transmission requirements for copper twisted-pair and optical fiber cabling and components**

Agenda and Meeting Overview

- **Review “TSB-184 Re-wording” liaison**
- **November 2 – 6 in Jacksonville, FL**
- **Review TR-42 sub-committee activities**
 - **12 sub-committees met**
- **Update on project development**
-  **This symbol highlight key points of interest**

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TSB-184 cabling recommendation:

“When planning new installations delivering remote power, category 5e or better 4-pair balanced twisted-pair cabling as specified in ANSI/TIA-568-C.2 is recommended.”

Note addressing category 5:

“For the purpose of dc power transmission, the capacity of legacy category 5 cabling, as described in ANSI/TIA-568-C.2, is considered equivalent to category 5e.”

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling):**
 -  – **TSB-185, “Environmental Classification (MICE) Tutorial” approved for publication**
 - **New project: ANSI/TIA-942-A, “Telecommunications Infrastructure Standard for Data Centers” circulating for ‘mock’ ballot**
 - **New project: ANSI/TIA-862-A “Building Automation Systems Cabling Standard” circulating for industry ballot**

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling), cont.:**
 - **New project: ANSI/TIA-1179, "Healthcare Facility Telecommunications Cabling Standard" circulating for industry ballot**
- **TR-42.2 (Residential Infrastructure):**
 - **ANSI/TIA-570-C, "Residential Telecommunications Infrastructure" reaffirmed for publication**


TR-42 Activities

- **TR-42.3 (Pathways and Spaces):**
 - **New project: ANSI/TIA-569-C, “Commercial Building Standard for Telecommunications Pathways and Spaces” circulating for committee ballot**
 - **New project: ANSI/TIA-568-C.1-1, “Commercial Building Telecommunications Cabling Standard, Addendum 1 Pathway and Spaces” circulating for committee ballot**



TR-42 Activities

- **TR-42.4 (Outside Plant):**
 - **New project: ANSI/TIA-758-B, “Customer-Owned Outside Plant Telecommunications Infrastructure Standard” circulating for committee ballot**
- **TR-42.5 (Terms and Symbols):**
 - **Definitions, acronyms, units of measure, and symbols maintained in a working document**



TR-42 Activities

- **TR-42.6 (Infrastructure Administration):**
 - New project: ANSI/TIA-606-B development deferred until ISO/IEC TR 14763-2-1 work is complete
- **TR-42.7 (Copper Cabling):**
 -  ANSI/TIA-568-C.2, “Balanced Twisted-Pair Telecommunications Cabling and Components Standard” published and available from www.ihs.com


TR-42 Activities

- **TR-42.7 (Copper Cabling):**
 -  – **ANSI/TIA-1152, “Requirements for Field Test Instruments” published and available from www.ihs.com**
 -  – **New project: ANSI/TIA-568-C.4, “Broadband Coaxial Cabling and Components Standard” circulating for committee ballot**

TR-42 Activities

- **TR-42.7 (Copper Cabling), cont.:**
 -  – **New project: TSB-155-A, “Guidelines for the Assessment and Mitigation of Installed Category 6 Cabling to Support 10GBASE-T”, circulating for default ballot**
 -  – **New project: “Guidelines on Shared Pathways and Shared Sheaths” TSB initiated**

TR-42 Activities

- **TR-42.8 (Optical Fiber Cabling):**
 -  **TIA-492AAAD: "Detail specification for OM4 850-nm laser-optimized, 50- μ m core diameter/125- μ m cladding diameter class la graded-index multimode optical fibers" published and available from www.ihs.com**

TR-42 Activities

- **TR-42.9 (Industrial Infrastructure):**
 - **New project: ANSI/TIA-1005-A, “Telecommunications Infrastructure Standard for Industrial Premises” circulating for committee ballot**
 - **TG is investigating POF technology for possible inclusion in ANSI/TIA-1005-A**

TR-42 Activities

- **TR-42.11 (Optical Fiber Systems):**
 - **TIA-455-243 (FOTP-243), “Single-ended PMD test method” approved for publication**
 - **TSB-178, “Launch Condition Guidelines for Measuring Attenuation of Installed Multimode Cabling” comment resolution deferred until February**

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables):**
 - **New project: FOTP-28, “Dynamic Tension” circulating for industry ballot**
 - **New project: FOTP-7, “Numerical Aperture” circulating for industry ballot**
 - **New project: FOTP-244, “Expressed Tube Cycling” circulating for industry ballot**

TR-42 Activities

- **TR-42.16 (Grounding and Bonding):**
 - **New project: ANSI/TIA-607-B
“Telecommunications Grounding
(Earthing) and Bonding for Customer
Premises” circulating for industry ballot**

Upcoming TIA Meetings

TR-42 Plenary Meetings

February 1 - 5, 2010

San Diego, CA

www.tiaonline.org

Thank you

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