

IEEE 802.3 Ethernet Working Group 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, optical fiber, and coaxial cabling and components

TR 42.1 - *Premises Telecommunications Infrastructure*

- **TR42.1 Officer Elections Held**
 - Chair – Diane Forbes
 - Vice Chair – Cindy Montstream
- **TSB-6000, Application Tables**
 - Document published & publicly available for free
 - TIA TR42 sends its thanks IEEE 802.3 WG
- **TIA-568.1-F, Consolidation of 568.0, 568.1 & 862**
 - Comment resolution underway
 - Not complete, interim meeting 17Feb to finish
- **TIA-TSB-162-B (Wireless Access Points)**
 - All comments resolved
 - Approved for 1st ANSI ballot

TR 42.3 – *Commercial Building Telecommunications Pathways & Spaces*

- **TR42.3 Officer Elections Held**
 - Chair – Cindy Montstream
 - Vice-Chair – Jonathan Jew
- **ANSI/TIA-569-F**
 - Comment resolution completed
 - Approved another Call for Comments
- **TIA-606-E, Administration**
 - Comment resolution completed
 - Approved another Call for Comments

TR 42.5 – *Commercial Building Telecommunications Pathways & Spaces*

- **TR42.5 Officer Elections Held**

- Chair – Scott Eischens
- Vice-Chair – Tiger Ninomaya

- **New Definition, Inspectable Space**

That vertical and horizontal space from the outside of a sensitive facility in which a threat can be identified and removed.

TR 42.7 - *Telecommunications Copper Cabling Systems*

- **TR42.7 Officer Elections Held**
 - Chair – Brian Celella
 - Vice-Chair – Brad Woodman
- **Documents published since Oct 2024 meeting**
 - TSB-184-A-2, Power Delivery on Balanced Twisted-Pair Cabling, addendum 2
 - TSB-190, Guidelines on Shared Pathways & Shared Sheaths
 - ANSI/TIA-568.2-E Balanced Twisted Pair Telecommunications Cabling and Components Standard
 - ANSI/TIA-568.1, Balanced Single Twisted-Pair Telecommunications Cabling and Components
- **ANSI/TIA-568.6, Single Pair Multi-Drop (SPMD)**
 - Reviewed project status and relationship to IEEE P802.3da
 - Expect to receive contributions to this project at June 2025 meeting

TR 42.7 - *Telecommunications Copper Cabling Systems*

- **ANSI/TIA-1152-A, Requirements for Field Test Instruments**
 - Agreed to re-affirm this document for another 5 years
- **Extended Reach on 4-pair Cabling**
 - Beginning work on a TSB for this application
 - A companion whitepaper to solicit end-user interest in the project is underway
 - Scope and PAR will be presented at the June 2025 meeting

TR 42.9 - *Industrial Telecommunications Infrastructure*

- **TR42.9 Officer Elections Held**
 - Chair – Brian Shuman
 - Vice-Chair – Brad Woodman
- **ANSI/TIA-1005-B**
 - Ballot comments partially addressed
 - Document tabled until the June meeting
- **ANSI/TIA-568.7 Industrial SPE**
 - Ballot comment resolution completed
 - Motion approved to send out for another recirculation ballot

TR 42.11 - *Optical Fiber Systems*

- **TR42.11 Officer Elections Held**
 - Chair – Phil Irwin
 - Vice-Chair – Tom Knychalski
- **ANSI/TIA-568.3-E-1, Optical Fiber Cabling and Components**
 - Liaison update: TIA will add missing polarity variants to TIA-568.3-E addendum as requested by IEEE P802.3dj
 - 3rd Call for Comments is open
- **Documents reaffirmed**
 - ANSI/TIA-526-28, Attenuation Measurement of MPO
 - ANSI/TIA-526-2-A, Power Coupled into SM Fiber Optic Cable

TR 42.12 – *Optical Fibers*

• TR42.12 Off- Cycle Officer Elections Held

- Chair – Michael Stover
- Vice-Chair – Dave Kozischek

Revisions Published - **6**

- TIA-455-3 (FOTP-3)
- TIA 455-82 (FOTP-82)
- TIA 455-95 (FOTP-95)
- TIA-455-203 (FOTP-203)
- TIA-455-204 (FOTP-204)
- TIA 455-244 (FOTP-244)

Ongoing Document Work- **4**

PARs complete but Ballot not started

- FOTP-85 Fiber Optic Cable Twist Test
- FOTP-87 Fiber Optic Cable Knot Test
- FOTP-162 Optical Fiber Cable Temperature Humidity
- ANSI/TIA-598-D-2014 (“Optical Fiber Cable Color Coding”): open for revision

Reaffirmed as (IEC)- **11**

- ANSI/TIA 455-62-C (IEC-60793-1-47)
- ANSI/TIA 455-67-B (IEC-60793-1-51)
- ANSI/TIA 455-74-B (IEC-60793-1-53)
- ANSI/TIA 455-78-C (IEC-60793-1-40)
- ANSI/TIA 455-80-D (IEC-60793-1-44)
- ANSI/TIA 455-122-C (IEC-60793-1-48)
- ANSI/TIA 455-176-B (IEC-60793-1-20)
- ANSI/TIA 455-175-C (IEC-60793-1-42)
- ANSI/TIA 455-177-C (IEC-60793-1-43)
- ANSI/TIA 455-178-60793-1-32 (IEC)
- ANSI/TIA 455-191 (IEC-60793-1-45)

ICEA Ballot Support - **5**

Ongoing in ICEA for comments to be submitted to TIA in June

- FOTP-25 Impact Testing of Optical Fiber Cables
- FOTP- 41 Compressive Loading Resistance of Optical Fiber Cables
- FOTP-88 Fiber Optic Cable Bend Test
- FOTP-91 Fiber Optic Cable Twist-Bend Test
- TIA/EIA-455-98 FOTP-98 Fiber Optic Cable External Freezing Test

Other key Items- **2**

- Restart Color Task Group...Interested parties wanting to join TG...Email MS or DK
- Recirculation ballot FOTP-84 Jacket Self-Adhesion (Blocking)

TR 42.13 - *Passive Optical Devices & Fiber Optic Metrology*

- **TR42.13 Officer Elections Held**

- Chair – Derek Huffman
- Vice-Chair – Andrei Vankov

- **Maintenance Projects**

- Approved new projects for ANSI/TIA-604-19 CS Connector, TIA-455-157 PDL measurements, new project to revise ANSI/TIA-456-16-A Salt/Corrosion
- Approved publication of ANSI/TIA-455-11E Vibration and ANSI/TIA-604-10-D LC connector

- **New Project Approvals**

- New project ANSI/TIA-604-TBD to standardize AIM connector
- SAC (SN) and MDC connector standards expect to publish at June 2025 meeting