

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

TR42 Committee News

- Next TR42 Plenary Meeting is 27-31 Jan 2025 in St. Petersburg, FL
- Officer elections for Chair/Vice-Chair committees will be held at the January 2025 TR42 Plenary Meeting
 - TR42.1, TR42.3, TR42.5, TR42.7, TR42.9, TR42.11, and TR42.13
 - The chair of TR42.12 has decided to resign so a special interim election will be held in January for this committee
- Chris DiMinico has stepped down as 802.3 WG liaison to TIA TR42
 - TIA TR42 requests that 802.3 WG provide a new liaison officer

TR 42.1 - Premises Telecommunications Infrastructure

- TSB-6000, Application Tables
 - TR42.1 thanks 802.3 WG for their assistance in vetting this document
 - Document moves to publication, Q4-2024
 - TSB-6000 is now a public document and remains under the purview of TR42.1
- TIA-568.1-F, Consolidation of 568.0, 568.1 & 862
 - Call for Comments, closes 13Jan2025
- TIA-TSB-162-B (Wireless Access Points)
 - Calls for Comments, closes 13Jan2025
- ANSI/TIA-758-C (Outside Plant)
 - Comments resolved; another recirculation ballot approved

TR 42.3 — *Commercial Building Telecommunications Pathways & Spaces*

- ANSI/TIA-569-F
 - Call for comments initiated, due 13Jan2025
- **TIA-606, Administration**
 - Call for comments initiated, due 13Jan2025
- **TIA-5048, AIM (Automated Infrastructure Management)**
 - Call for comments initiated, due 13Jan2025

TR 42.5 - *Telecommunications Infrastructure Terms & Symbols*

- **No new definitions this meeting cycle**
- **TSB-6000 Application Tables will remain with TR42.1**

TR 42.7 - *Telecommunications Copper Cabling Systems*

- **TR42.7 CFI for Extended Reach Links**

- Committee wishes to create a standards-compliant way to exceed the 100m link length

- **TSB-184-A-2, Power Delivery over Single-Pair**

- Published.

- **TSB-190, Guidelines on Shared Pathways and Shared Sheaths**

- Published

- **ANSI/TIA-568.6, Single Pair Multi-Drop (SPMD)**

- Reviewed project status and relationship to IEEE P802.3da
- Committee asks that stable draft of 802.3da be shared when available

TR 42.9 - *Industrial Telecommunications Infrastructure*

- **ANSI/TIA-1005-B**

- Send out of a recirculation ballot

- **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*

- **ANSI/TIA-568.3-E-1, Optical Fiber Cabling and Components**
 - Development of Addendum.
 - Comment resolution complete for ballot #2
 - Passed motion to ballot #3
- **ANSI/TIA-526-28 [Attenuation Measurement of MPO]**
 - Motion passed to approve project and ballot to revise
- **ANSI/TIA-526-2-A [Power Coupled into SMF Cable]**
 - Motion passed to approve project and ballot to revise
- **IEC Performance Standard Adoption Strategy**
 - Proposal to evaluate adopting this strategy

TR 42.12 – Optical Fibers

<p>Standards Published - 2</p> <ul style="list-style-type: none">• TIA-455-37 FOTP-37 Low or High Temperature Bend Test for Fiber Optic Cable• TIA/EIA-455-81 FOTP-81 Compound Flow (Drip) Test for Filled Fiber Optic Cable	<p>Motions to Publish - 3</p> <ul style="list-style-type: none">• TIA-455-3 (FOTP-3) Temperature Ramps and Precision• TIA-455-203-A FOTP-203 Light Source Encircled Flux Measurement• TIA-455-204-B FOTP 204 is an adoption of the IEC 60793-1-41	<p>Motions For Comments – 6</p> <ul style="list-style-type: none">• TIA-455-33 FOTP-33 Optical Fiber Cable Tensile Loading• TIA-455-41 FOTP- 41 Compressive Loading Resistance of Optical Cable• TIA/EIA-455-88 FOTP-88 Fiber Optic Cable Bend Test• FOTP-89 Optical Fiber Cable Jacket Elongation and Tensile Strength• TIA-455-91 FOTP-91 Fiber Optic Cable Twist-Bend Test• TIA/EIA-455-98 FOTP-98 Fiber Optic Cable External Freezing Test
<p>Open Ballots – 16</p> <ul style="list-style-type: none">• Please vote they all close in 1 week	<p>Motions to Start PARs- 2</p> <ul style="list-style-type: none">• FOTP-16 Salt Spray (Corrosion) Test for Fiber Optic Components• FOTP-25 Impact Testing of Optical Fiber Cables	<p>Motions to Withdraw- 1</p> <ul style="list-style-type: none">• TIA-455-38 FOTP-38 Measurement of Fiber Strain in Cables under Tensile Load

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

Ballot Comment Resolution

- ANSI/TIA-PN-455-11-E (FOTP-11, Vibration Test Procedure)
 - Revision project.
 - Resolved all comments.
 - 42.13 agreed to move the document forward to Recirculation Ballot.
- ANSI/TIA-PN-455-171-B (FOTP-171, Attenuation by Substitution)
 - Reaffirmation project.
 - Resolved all comments. Commenter with the Technical No vote agreed to withdraw the No vote and comment.
 - Good discussions surrounding potential revision (related to FOTP-54). Proposal is welcomed for future revision.
 - 42.13 agreed to move the document forward to Publication.
- ANSI/TIA-PN-604-10-D (FOCIS 10, Type LC)
 - Revision project.
 - Resolved all comments.
 - 42.13 agreed to move the document forward to Recirculation Ballot.