

IEEE 802.3 Ethernet Working Group TIA TR-42 Liaison to IEEE 802.3

Bob Voss
Panduit Corp.
15Jul2024

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*

- **TSB-6000, Application Tables**
 - Liaison request for IEEE 802.3 WG to review prior to publication
 - Next TIA TR42 plenary meeting is 07-11Oct2024
- **TIA-568.1-F, Consolidation of 568.0, 568.1 & 862**
 - Consolidation process initiated
 - Goal is improved usability
- **TIA-TSB-162-B (Wireless Access Points)**
 - Document maintenance undertaken
 - TSB was published in 2020

TR 42.3 — *Commercial Building Telecommunications Pathways & Spaces*

- **ANSI/TIA-569-F**
 - Call for comments initiated to revise document
- **TIA-606, Administration**
 - Call for comments initiated to revise document
- **TIA-5048, AIM (Automated Infrastructure Management)**
 - Call for comments initiated to revise document

TR 42.5 - *Telecommunications Infrastructure Terms & Symbols*

- **Modified definition of “Alien Crosstalk”**
- **Modified definition of “Intermediate Cross Connect”**
- **TR42.5 will maintain TSB-6000 once approved for publication by TR42.1**

TR 42.7 - *Telecommunications Copper Cabling Systems*

- **TR42.7 CFI for Extended Reach Links**
- **TSB-184-A-2, Power Delivery over Single-Pair**
 - Approval to publish the document.
- **TSB-190, Guidelines on Shared Pathways and Shared Sheaths**
 - Approval to publish the document
- **ANSI/TIA-568.6, Single Pair Multi-Drop (SPMD)**
 - Reviewed project status and relationship to IEEE P802.3da
 - Resolved to maintain project on committee agenda

TR 42.9 - *Industrial Telecommunications Infrastructure*

- **ANSI/TIA-1005-B**
 - Deferred document resolution pending TIA-568.7 approval
- **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.
 - Reviewed contribution TR42.11-2024-06-006 Observations and proposed changes to TIA-568.3-E-1
 - Completed comment resolution summary of call for comments ballot #1.
 - Passed motion for Ballot Authorization as call for comments #2 and any forthcoming call for comments ballots.

TR 42.12 – *Optical Fibers*

- **TIA 455, General Requirements for Optical Fiber Testing**
 - Reaffirmed and approved for publication
- **FOTP-16, Salt Spray Testing for Fiber Optic Components**
 - Reaffirmed and approved for publication
- **FOTP-25, Impact Testing of Optical Fiber Cables**
 - Reaffirmed and approved for publication
- **TIA-455-56, Test Method for Evaluating Fungus Resistance**
 - Reaffirmed and approved for publication
- **TIA-455-71, Procedure to Measure Temperature Shock Effects**
 - Reaffirmed and approved for publication

TR 42.12 – *Optical Fibers*

- **TIA-455-86, FOTP-86 Optical Fiber Cable Jacket Shrinkage**
 - Reaffirmed and approved for publication
- **TIA-455-104, FOTP-104 FO Cable Cyclic Flexing Testing**
 - Reaffirmed and approved for publication
- **TIA-455-234, FOTP-234 Measurement Methods, Temperature Change**
 - Reaffirmed and approved for publication

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

- **ANSI/TIA-PN-604-10-D (FOCIS 10)**
 - Fiber Optic Connector Intermateability Standard – Type LC
 - Many comments were surrounding the document style and graphics needing major editing
- **ANSI/TIA-PN-455-11-E (FOTP-11)**
 - Vibration Test Procedure for Fiber Optic Components and Cables
 - Approved for publication