



Telecommunications Industry Association

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Arlington, VA 22201 | www.tiaonline.org

Approved by General Counsel

TR-42.13 Subcommittee on
Passive Optical Devices and Fiber
Optic Metrology

Meeting Date: 08 June 2022

Location: Teleconference

Approved: 28 June 2022



Meeting Report

TR-42.13 Passive Optical Devices and Fiber Optic Metrology

Date: June 8, 2022
Time: 1:00 pm - 6:00 pm (CT)
Location: Virtual GoToWebinar
Chair: Greg Sandels
Vice Chair: Sunny Xu

Meeting/Event Schedule: see TIA's Events Calendar for the full schedule (<https://tiaonline.org/events/>)

Event Registration: (not required as meeting is not in person)

GoToWebinar Registration: <https://attendee.gotowebinar.com/register/6234122499719252494>

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TIA is actively seeking participation in TR-42 standards projects from the user and general interest categories

1. Administrative/General Business

1.1. Call to Order

Chair Mr. Sandels called the meeting to order at 1:01PM CT and welcomed all members.

1.2. Attendance (Call Quorum, Introductions, Roster)

New TR42.13 member introductions: Nest Tech (Dan Smith), Navy/NavAir/DOD (Joshua Carter) and Molex (Phil Rivers).

Quorum established with 23 of 28 quorum companies in attendance (15 needed).

The following participants were reported as attendees via GoToWebinar.

Participant	Affiliation
Adnan Ahmed	R&M
Alex Richard	Legrand

Participant	Affiliation
Bulent Kose	Panduit
Patrick Turreau	Photon Kinetics



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Participant	Affiliation
Adam Broughton	Sumitomo Electric
Joshua Carter	US Navy
Christin Ford	Superior Essex
Mike Connaughton	Leviton
Ana Cruz	Belden
Dave Valentukonis	The Siemon Company
Derek Huffman	Corning
Gang HE	EXFO
Mike Gurreri	CommScope
Tom Hodson	Total Cable Solutions
Hamid Jahani	JGR Optics
Sylvanus Lee	Leviton
Andrea Lizarraga	Belden
Paul Manley	AFL Hyperscale
Dan Morris	KITCO Fiber Optics
Tiger NINOMIYA	Senko
Florence Otieno	TIA

Participant	Affiliation
Phil Irwin	Panduit
Lionel Provost	Prysmian
Phillip Rivers	Molex
Roman Shubochkin	OFS
Erich Rosenast	Tempo Communications
Tyler Royer	Senko
Greg Sandels	OFS
Shelly Buchter	US Conec
Dan Smith	Nest Tech
Steve Eisele	Data Center Systems
David Tanis	AFL
Thomas Schmalzigaug	HUBER SUHNER
Sunny Xu	CommScope
Richard Dallmann	Cable Express
Seymour Goldstein	Fluke Networks
David Kozischek	Corning

1.3. Current Meeting Agenda Review and Approval

Review and approve the current meeting agenda (TR42.13-2022-06-001b).

Motion #1: Move to approve the current meeting agenda.

M: G. Sandels

S: S. Xu

Result: Motion was moved, seconded and passed without objection.

1.4. Previous Meeting Report Review and Approval

Review and approve the previous approved meeting report (TR42.13-2022-01-009).

Motion #2: Move to approve the previous meeting report.

M: G. Sandels

S: P. Irwin

Result: Motion was moved, seconded and passed without objection.



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1.5. TIA Intellectual Property Rights (Early Disclosure Policy)

TIA's Intellectual Property Rights Policy can be found in Statements of Policy (ANNEX C) and other clauses and annexes of TIA Standards Development Procedures. Participants in the work of the TIA Formulating Groups are urged to review the appropriate sections. Individual participants are encouraged to notify TIA of any patent(s) or published pending patent application(s) of which they are aware that may be essential to the practice of a proposed TIA Publication, including requirements introduced through normative references, early on in the development to reduce the possibility for delays in the development process and increase the likelihood that the proposed TIA Publication will become a Standard. However, a Patent Holder who has provided TIA with a TIA Patent Holder Statement with respect to the applicable proposed TIA Publication need not (but may elect to) identify its specific patent(s) or published pending patent application(s) that may be essential to the practice of the proposed TIA Publication in question. Patent searches are not required to comply with the TIA Intellectual Property Rights Policy.

1.6. Distribution of documents and contributions

Document Number	Contributor	Affiliation	Title/Subject
TR42.13-2021-01-009	Sunny Xu	CommScope	January 26, 2022 Approved Meeting Report
TR42.13-2022-06-001b	Sunny Xu	CommScope	June 8, 2022 Meeting Agenda
TR42.13-2022-06-002	Derek Huffman	Corning	IEC 86B Liaison Report
TR42.13-2022-06-003	Thomas Schmalzigaug	H+S	Overview of cable shrinkage testing
TR42.13-2022-06-004	Derek Huffman	Corning	Brief Performance Standard Overview

2. Liaison Reports

2.1. IEC SC86B Liaison Report – D. Huffman

Mr. Huffman presented the IEC SC86B liaison report, which provides an overview of the IEC structure and work scopes for SC86B WG4 and WG6. Summary activities (recent publications and documents in active development) for each working group were also reviewed.

Next IEC SC86B meeting is scheduled for Oct. 27 – Nov. 3 in San Francisco, CA.

2.2. CENELEC Liaison report – T. Schmalzigaug

No meeting held since last TIA meeting.

3. Old Business/Action Items

3.1. Action Items

Action Items		Status
#1	Helmut K. to compare IEC TR 61931 terminologies to TIA-TR42.5 terminologies.	Rollover.



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3.2. Old Business

- IEC 61755 SM connector optical interfaces adoption
 - ANSI/TIA-621.1 (Adoption of IEC 61755-1:2022) General and guidance In FDIS stage.
 - ANSI/TIA-622.1 (Adoption of IEC 61755-2-1:2022) non-angled In FDIS stage.
 - ANSI/TIA-622.2 (Adoption of IEC 61755-2-2:2022) angled In FDIS stage.

Motion #3: Move to ballot the documents ANSI/TIA-621.1, ANSI/TIA-622.1, ANSI/TIA-622.2 once IEC 61755-1, 61755-2-1 and 61755-2-2 are published.

M: G. Sandels

S: D. Huffman

Result: Motion was moved, seconded and passed without objection.

AI #1: Sunny to request IEC 61755-1, IEC 61755-2-1 and IEC 61755-2-2 documents once published for adoption.

AI #2: Greg to request TIA document numbers for IEC 61753, IEC 61755 and IEC 63267 series adoption.

AI #3: Greg to send Helmut the TR42.5 definition document.

- ANSI/TIA-622.4 (Adoption of IEC 61755-2-4:2015) non-angled, reference connection Industry ballot closes on July 5, 2022.
- ANSI/TIA-622.5 (Adoption of IEC 61755-2-5:2015) angled, reference connection Industry ballot closes on July 5, 2022.

4. New Business

4.1. Contributions

4.1.1. Overview of shrinkage testing of cables - T. Schmalzigaug

Mr. Schmalzigaug presented an overview of shrinkage testing in IEC SC86A. The overview detailed the various test methods and active developments pertaining to sheath shrinkage (IEC 60794-1-211 Method F11A and F11B), shrinkage/fiber protrusion (IEC 60794-1-22 Method F17 to become IEC 60794-1-217) and temperature cycling with cable elements fixed at both ends (IEC 60794-1-22 Method F12 to become IEC 60794-1-212).

The first edition of shrinkage study technical report (TR 62959) was published in 2021, and there is a call for proposal for cable testing and results of shrinkage test. All members are encouraged to bring contributions to 42.13 (and IEC SC86A) for further discussions.

4.1.2. Brief Performance Standard Overview – D. Huffman

Mr. Huffman presented an overview of the IEC 61753 series performance standards (environmental categories included) in IEC SC86B. There are notable differences between ANSI/TIA-568.3 and IEC 61753-021-2 (SM Cat C). ANSI/TIA-568.3 Annex A references



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multiple FOTP (TIA-455) documents, and concerns have been raised by the government sector previously on making significant changes to the FOTP documents. One option was discussed to reference IEC specifications in the 568.3 document and keep the FOTP documents unchanged for interested entities to reference. This will be an on-going discussion within committee.

4.2. New Projects and Proposals

Committee discussed potential IEC adoption projects - SEC and MDC connectors, and various reference grade connectors. All are currently under development and committee will monitor closely.

5. Document maintenance

TIA and TR42 leadership will collaborate and determine best approach to track TR42 documents for maintenance purposes.

6. Upcoming Meetings

The next TR42 meetings are scheduled for October 3-7, 2022 in St. Petersburg, FL. TR42.13 meeting is tentatively scheduled on Oct. 5th from 1-6 pm (CT).

7. Adjournment

Motion to adjourn at 3:54 pm (CT).

M: G. Sandels

S: S. Xu

Result: Motion was moved, seconded and passed without objection.

This meeting was conducted in accordance with the TIA Legal Guidelines and the engineering procedures.

AVAILABILITY OF MEETING DOCUMENTS:

TR-42.13 members/participants are instructed to download contributions and other meeting documents from TIA Connect (connect.tiaonline.org) before the meeting.

To access the meeting's contributions, please follow the directions below:

- Go to connect.tiaonline.org
- Enter your *Username* (your email address in the TIA database)
- Enter your *Password*
- Click "*LOGIN*"
- Click the "*Communities*" tab and then select "*All My Communities*"
- Scroll down the page and select "*TR-42.13 Passive Optical Devices and Optic Metrology*"
- Click on "*Documents*" and then navigate to any meeting folder of interest.

NEW CONTRIBUTIONS:

Contributions shall use the approved templates and specific wording provided by TIA. Contributions affecting a document are to include a TIA cover sheet, proposed text to be included in the document, and the rationale/substantiation for the contribution. File templates are available on TIA Connect under the Standards Procedure Toolbox tab in the Form folder for download. All contributions shall be submitted to



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the electronic document coordinator (EDC). All electronic files shall be provided in either Adobe Acrobat (*.PDF); Microsoft Word (*.DOC); Microsoft PowerPoint (*.PPT); or in Microsoft Excel(*.XLS). Compressed files shall be accessible using PKUNZIP or WINZIP (*.ZIP).

Early submittal and posting of contributions for consideration in meetings is highly encouraged. Contributions shall be submitted to the EDC as soon as possible and then posted to the appropriate TIA Connect folders by the EDC as soon after receipt as possible, preferably within one business day. All contributions shall be posted to the appropriate location on TIA Connect no later than 12:00 noon EST on the Monday preceding the week of the meeting in which the contribution is to be considered (example: if the meeting will be held on Thursday the 20th, the contributions shall be posted by noon on Monday the 10th).

LATE CONTRIBUTIONS:

Contributions not provided to the EDC within 24-hours of the meeting shall be classified as "late contributions." They may be considered in the meeting to which they are addressed at the discretion of the chair. All late contributions shall be provided to the EDC and to the committee members on a memory stick or other electronic media. All late contributions shall be posted to TIA Connect within one week of meeting adjournment.

Questions and comments on this agenda should be submitted to:

Greg Sandels, Chair	gsandels@ofsoptics.com	(770) 798-2036
Sunny Xu, Vice-Chair	Sunny.Xu@commscope.com	(972) 792-3072