



**Telecommunications Industry Association**

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**Approved by General Counsel**

TR-42.12 Subcommittee on Optical Fibers  
and Cables

Meeting Date: 01 February 2023

Location: Tampa, FL

Approved: 16 February 2023



## Meeting Report

### TR-42.12 Optical Fibers and Cables

Date: Wednesday, February 1, 2023  
Time: 1:30 p.m. – 6:00 p.m. EST  
Location: Hybrid Meeting: Hilton Tampa Airport Westshore Hotel, 2225 N Lois Ave, Tampa, FL 33607 / GoToWebinar  
Chair: Dave Kozischek (Committee Support: Cheryl Thibideau)  
Vice Chair: Roman Shubochkin

**GoToWebinar Registration:** <https://attendee.gotowebinar.com/register/4061806387010723340>

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#### 1. Administrative/General Business

##### 1.1. Call to Order

The chair called the meeting to order at 1:31 p.m. EST.

Attendees were advised of the Important Notice of Participation

#### **TIA IMPORTANT NOTICE OF PARTICIPATION**

Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of an agreement to be bound by all provisions of TIA Standards Development Procedures and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by the head of the TIA Standards Department on a case-by-case basis.

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

##### 1.2. Attendance (Call Quorum, Introductions, Roster)

Attendance was collected via GoToWebinar. Quorum was verified by roster call. Quorum was achieved with 25 companies attending forming quorum versus 16 needed.



## Meeting Report

31 Companies listed in quorum		Total members at meeting				33
16 Companies needed to form quorum						
25 Companies attending forming quorum						
Member Status	Quorum Achieved!!!	Send attendance letter	Attained voting status this mtg	Voting member at beginning of this mtg	Number of	Hybrid Tampa, FL
	the last 3 mtgs attended					
Company						1-Feb
ME	3M					
ME	AEM				1	
ME	AFL				1	1
ME	AFL Hyperscale			Voting	3	
ECP	Belden Networks Division			Voting	3	1
	BASF					
ME	BR+A Consulting Engineers	Send Ltr		Voting	1	
ME	Cable Express			Voting	3	1
ME	CommScope			Voting	3	1
ME	Convergent Connectivity Technologies					
ME	Corning Incorporated			Voting	3	1
ME	DCS			Voting	3	1
ME	Ericsson			Voting	3	
ME	Exfo			Voting	3	1
ME	Experior Laboratories					
ME	Fluke Networks			Voting	3	
ME	Furukawa					1
ME	Global Datacenter Engineering			Voting	1	1
ECP	Google			Voting	2	1
ME	Hitachi				1	1
ECP	Huber + Suhner			Voting	3	1
	Intertek					
ME	Santec Canada Corporation (JGR Optics Inc)			Voting	3	1
ME	JP Morgan Chase					
	Keller REC				1	
ME	KITCO Fiber Optics			Voting	3	1
ME	Legrand			Voting	3	1
ME	Leviton			Voting	3	1
	NAVAIR					1
	NAVSEA				2	1
ME	Nest			Voting	2	1
ECP	NIS					
ME	OFS			Voting	3	1
	OCC (Optical Cable Corporation)					1
ME	Santec Canada Corporation (OptoTest Corp)			Voting	1	1
ME	Panduit Corp.			Voting	3	1
ME	Photon Kinetics, Inc.			Voting	3	1
ME	Prysmian Group, The			Voting	3	
ME	R&M			Voting	3	1
	RIT Tech					
ME	Rosenberger					
ME	Senko			Voting	3	1
ME	Siemon Company, The			Voting	3	1
ME	Sumitomo Electric			Voting	3	1
ECP	Superior Essex			Voting	3	1
ME	Tempo			Voting	3	1
ME	Total Cable Solutions			Voting	2	
	Trend Networks				1	
	Underwriters Laboratories (UL)					1
ME	US Navy				1	1
ME	USConec LTD			Voting	3	1



## Meeting Report

Attendees:

Last Name	First Name	Organization	Last Name	First Name	Organization
Ahmed	Adnan	R&M	Lambert	Angela	Corning
Allen	William	OFS	Lee	Sylvanus	Leviton
Angra	Nik	AFL Hyperscale	Lee	Ben	SENKO
Barrera	Dan	Ideal Networks/Trend	Lizarraga	Andrea	Belden
Broughton	Adam	Sumitomo Electric	Locker	Chris	Google
Brumit	Bobby	Google	Morris	Dan	KITCO Fiber Optics
Buchter	Shelly	US Conec	Ninomiya	Tiger	SENKO
Burton	Brandi	Naval Surface Warfare Center Dahlgren Division	Payton	Scott	Global Data Center Engineering
Cassidy	Dan	UL	Pondillo	Peter	Corning
Clampitt	Zach	CommScope	Pressey	Jacquelyn n	US Navy
Connaughton	Mike	Leviton	Reece	Mark	Google
Cook	Hunter	Proterial Cable America Inc.	Richard	Alex	Legrand
Cruz	Ana	Belden	Rivers	Phillip	Molex
Dallmann	Rick	CABLExpress	Rosenast	Erich	Tempo Communications
Eisele	Steve	Data Center Systems	Royer	Tyler	SENKO
Ford	Christin	Superior Essex	Sandels	Greg	OFS
Gurreri	Mike	CommScope	Scarpaci	Annabelle	Belden
He	Gang	Exfo	Schmalzigaug	Thomas	Huber Suhner
Henriques	Fabianne	Furukawa	Shubochkin	Roman	OFS
Huffman	Derek	Corning	Smith	Daniel	Nest
Imrazene	Sandra	Belden	Stover	Michael	Optical Cable Corporation
Irwin	Phil	Panduit	Tameh	Tara	Belden
Jahani	Hamid	Santec Canada	Tellas	Ronald	Belden
Knehr	Helmut	Ericsson	Tourreau	Patrick	Photon Kinetics
Kose	Bulent	Panduit	Valentukonis	Dave	Siemon
Kozischek	David	Corning	Xu	Sunny	CommScope

### 1.3. Current Meeting Agenda Review and Approval

The current meeting agenda has been posted. Reviewed agenda and moved to approve.

**Motion #1:** Move to approve current meeting agenda (TR42.12-2023-01-001)

Moved: Phil Irwin Second: Sunny Xu Result: Passed without objection



## Meeting Report

### 1.4. Previous Meeting Report Review and Approval

The TIA-approved report of the June 2022 meeting has been re-posted. Reviewed the previous meeting report and moved to approve this version that has the following changes: contributions numbers were renumbered from 001 to 006 and then reposted.

**Motion #2:** Move to approve the revised June 2022 meeting report with updated changes to agenda file numbers (TR4212-2022-06-009a)

Moved: Dave Kozischek Second: Roman Shubochkin Result: Passed without objection

The TIA-approved report of the October 2022 meeting has been posted. Reviewed the previous meeting report and moved to approve this report.

**Motion #3:** Move to approve the October 2022 meeting report (TR4212-2022-10-008)

Moved: Steve Eisele Second: Roman Shubochkin Result: Passed without objection

### 1.5. TIA Intellectual Property Rights (Early Disclosure Policy)

The Chair brought to the attention of the attendees the TIA policy regarding intellectual property rights:

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

The following documents distributed via TIACONnect

Document	Contributor	Affiliation	Title
TR42.12-2023-01-001	Dave Kozischek	Corning	Meeting Agenda
TR42.12-2023-01-002	David Kozischek	Corning	TR42.12 Master Doc List
TR42.12-2023-01-003	David Kozischek	Corning	IEC Liaison Report
TR42.12-2023-01-004	David Kozischek	Corning	ICEA Liaison Report
TR42.12-2023-01-005	Sunny Xu	CommScope	TR42.13 TIA-492AAAF-A Draft Review
TR4212-2022-06-009a	Roman Shubochkin	OFS	Revised June 2022 Meeting Report
TR4212-2022-10-008	Roman Shubochkin	OFS	October 2022 approved Meeting Report



## Meeting Report

### 1.7. Chair's Report and General Items

Use the TIA cover sheets for contributions. Cover sheets are not needed for balloted drafts, ballot results, or comment compilations. Request a document number from chair and place on cover sheet.

TR-42 has transitioned to TIA Connect for meeting administration and messaging and we will no longer be able to upload documents to the TIA FTP site. You will be able to retrieve old documents, but now documents will be uploaded to TIA Connect

<https://connect.tiaonline.org/home>.

Please also note that the "reflector" email distribution has changed: Old: [tr4212@tiacomm.org](mailto:tr4212@tiacomm.org)  
New: [TIA-TR4212@ConnectedCommunity.org](mailto:TIA-TR4212@ConnectedCommunity.org)

Voting registration policy: three non-returned ballots will place member in the "register by document" status instead of "automatic registration" status. This is being implemented to provide a mechanism to demote the people who are auto registered but do not participate in meetings or ballots that sometimes cause insufficient return rates to allow ballot closure.

### 1.8. List of Standards and TSBs from Subcommittee

Please reference the tracking spreadsheet located in TIAConnect TR42.12 workspace (TR42.12-2023-01-002\_v2.0\_MasterDoc.xlsx).

### 1.9. Liaison letters received

None

Note: MOU on FOTPs from ICEA was received and forwarded to Henry Franc

### 1.10. Reports

TR42.12-2023-01-003	David Kozischek	Corning	IEC Report
TR42.12-2023-01-004	David Kozischek	Corning	ICEA Report

## 2. FOTPs and Specifications working session

Review TR42.12-2023-01-002 (Master document list of FOTPs and Specs) then:

- Sort them by date, so we know which are out of date.
- Tag them to determine which ones can be adopted/reaffirmed without change.
- Tag any that are no longer needed, they can be rescinded and are equally easy.
- Then any that need to be adapted/updated/revised set up a priority list and ask for editors to take ownership.
- Regardless all actions; reaffirm/rescind/revise all need to go through the ballot process.

**Action #1:** Chair and Vice-chair will take action to review all documents on the Master sheet and come back in June 2023 with recommendations on the next batch of documents to work on. Comments from other 42.12 members are encouraged; please send any notes to Dave and Roman.

## 3. Old Business



## Meeting Report

### 3.1. TIA-455-3 (FOTP-3) Temperature Ramps and Precision (Editor: Roman Shubochkin, OFS)

October Update: PAF has been submitted but has not gone through for editorial comments

January Update: Unfortunately, looking into this further, we missed the deadline to submit this for publication per ANSI requirements. The public review for the ballot ended on July 12, 2021 and the BSR9 would have needed to be submitted by July 12, 2022 in order to be compliant with ANSI.

So, we should vote 1) put the document for the re-ballot after the meeting this week and 2) if it passes w/o technical objections, then it can go to publication automatically; there is no need to re-submit the paperwork. If there are no technical comments, then we can publish in April; Roman will submit the ballot form.

**Motion #4:** Move to put document in for re-ballot after Jan 2023 meeting and publish it if there are no technical objections.

Moved: Roman Shubochkin Second: Dan Morris Result: Passed without objection

### 3.2. TIA-455-111-B (11/2003) (FOTP-111), fiber curl, adoption of IEC 60793-1-34 (editor Phil Irwin, Panduit)

October Update: ballot closed on 6/13/2022, affirmative: 10, negative: 0, abstain: 20. Submit this to publication to TIA for publication

January Update: the document has been published.

### 3.3. TIA-492 Series Restructuring

#### 3.3.1. Generic (adopt with modifications of the IEC 60793-2:2019 as ANSI/TIA-4920000-C) (editor Derek Huffman, Corning)

October Update: Derek Huffman presented TR42.12-2022-10-005. Next steps change “adaptation” to “adopt with modifications”. After change propose we circulate ballot for comments. Dave and Derek to follow up with Teesha on PAR

Motion #5: Move to submit this document forward to committee ballot.

M: Derek S:Roman S Result: Motion Passes without objection

January Update: the document will go for a committee ballot after this meeting; will close on April 3.

#### 3.3.2. Multimode (adopt with modifications of the IEC 60793-2-10:2019 as ANSI/TIA 492AAAF) (editor Sunny Xu, Commscope)

October Update:



## Meeting Report

Motion #6: Move to withdraw doc number TR42.12-2022-06-008 and approve the new PAR TR42.12-2022-10-007.

M: Sunny X S: Derek H Result: Motion passes without objection

January Update:

**Motion #5:** Move the document to ballot.

Moved: Sunny Xu Second: Pete Pondillo Result: Passed without objection

### **3.3.3. Singlemode (adopt with modifications of the IEC 60793-2-50:2018 as ANSI/TIA-492CAAC) (editor Bulent Kose, Panduit)**

October Update: This has been published Jan 2022. Dave Koz to verify

January Update: Verified: Includes all amendments and changes through Errata, January 21, 2022.

### **3.4. Open projects to update adoptions:**

#### **3.4.1 TIA-455-133-A (05/2003) is an adoption of the IEC 60793-1-22:2001 Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement (editor Bulent Kose)**

October Update: IEC CD just issued and due in 2024. No action required until 60793-1-22 is published

January Update: CD just issued and due in 2024. No action required until 60793-1-22 is published

#### **3.4.2 TIA-455-203-A (03/2009) FOTP-203 Light Source Encircled Flux Measurement Method): plan to adopt the IEC 61280-1-4 Fibre Optic Communication Subsystem Test Procedures - Part 1-4: General Communication Subsystems - Light Source Encircled Flux Measurement Method (Bulent Kose)**

October Update: No action required until 61280-1-4 is published in 2023

January Update: IEC in CDV Stage, No action required until 61280-1-4 is published in 2023

#### **3.4.3 TIA-455-204-A (10/2013) is an adoption of the IEC 60793-1-41:2010 Optical fibres Part 1-41: Measurement methods and test procedures – Bandwidth (Patrick T)**

October Update: No action required until 60793-1-41 is published in 2024

January Update: No action required until 60793-1-41 is published in 2024

#### **3.4.4 TIA-455-204-A (10/2013) is an adoption of the IEC 60793-1-41:2010 Optical fibres Part 1-41: Measurement methods and test procedures – Bandwidth (Patrick T)**

October Update: Pete Pondillo presented TR42.12-2022-10-006 on Ink draw down. 42.12 members are encouraged to reach out to Pete Pondillo on this subject. Action to set up adhoc meeting before Jan TIA meeting on how to produce colors on a flat surface for measurements. Pete Pondillo will set up meeting.

January Update: Need to refine set-up, no update but correspondence continues.



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**Action #2:** Pete Pondillo to schedule a meeting before June for Ink Draw-down sample discussion. Meeting scheduled for March 15.

### 4. Recession/Obsolete Documents Discussions

#### 4.1. **FOTP 30** - Frequency Domain Measurement of Multimode Optical Fiber Information Transmission Capacity

October Update: Withdrawn. Pending verbiage around obsolete

January Update: superseded by 455-204

#### 4.2. **FOTP 54** - Mode Scrambler Requirements for Overfilled Launching Conditions to Multimode Fibers

October Update: Still shows as active

January Update: Still shows as active, needs a follow-up.

#### 4.3. **FOTP 124** - Polarization-Mode Dispersion Measurement for Single-Mode Optical Fibers by Interferometry (merge with FOTP 122?)

October Update: still active

January Update: Still shows as active, needs a follow-up.

**Action #3:** Dave K to check with Teesha Jenkins on all these obsolete documents that are still showing active.

### 5. New Business

#### 5.1. Ballot Update – none.

#### 5.2. Collaboration with ICEA on cable document maintenance

October Update: Dave to talk to Henry about current status.

January Update:

**Action #4:** Ask Henry for update at closing plenary.

#### 5.3. Closing Items: request 4.5 hours for June meeting

#### 5.4. Upcoming 2023 meetings: June 5 – 9 (TBD), October 2 – 6 (TBD)

### 6. Adjournment

**Motion #6:** Move to adjourn (3:40 p.m.).

Moved: Sunny Xu                      Second: Roman Shubochkin    Result: Passed without objection

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



## Meeting Report

### AVAILABILITY OF MEETING DOCUMENTS TO NON-MEMBERS:

All TIA non-members can download contributions and other meeting documents before the meeting by accessing the following TR-42.X Standalone Library:

[connect.tiaonline.org/communities/community-home/...](https://connect.tiaonline.org/communities/community-home/...)

### AVAILABILITY OF MEETING DOCUMENTS:

TR-42.12 members/participants are instructed to download contributions and other meeting documents from TIA Connect ([connect.tiaonline.org](https://connect.tiaonline.org)) before the meeting.

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

- Go to [connect.tiaonline.org](https://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-42.12 Optical Fibers and Cables"
- Click on "Documents" and then select the "2023-01 Virtual" folder

### 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 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 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 report should be submitted to:**

Dave Kozischek, Chair	kozischedr@corning.com	
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## Meeting Report

Committee Support: Cheryl Thibideau	CThibideau@tiaonline.org	
Roman Shubochkin, Vice-Chair	RShubochkin@ofsoptics.com	