



Telecommunications Industry Association

1310 North Courthouse Road, Suite 890
Arlington, VA 22201 | www.tiaonline.org

Approved by General Counsel

TR-42.12 Subcommittee on Optical Fibers and Cables

Meeting Date: 04 February 2021

Location: Teleconference

Approved: 10 February 2021



Meeting Report

TR-42.12 Telecommunications Cabling Systems Engineering Committee

Date: 2021.02.04
Time: 8:00am – 12:00pm (CST)
Location: Virtual GoToWebinar
Chair: Patrick Van Vickle
Vice Chair: Roman Shubochkin

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

GoToWebinar Registration: <https://attendee.gotowebinar.com/register/7553773937034774285>

1. Administrative/General Business

1.1. Call to Order

9am CST.

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 will be collected via GoToWebinar



Meeting Report

Last Name	First Name	Organization
Ahmed	Adnan	R&M
Alex Richard	Legrand	Legrand
Anand Bagaria, RCDD	RIT Tech	RIT Tech
BANOS	JORGE	CONDUMEX
Barrera	Dan	IDEAL Networks
Christin Ford	Superior Essex	Superior Essex
CommScope	Sunny Xu	CommScope
Cristina Kuniyoshi	Furukawa	Furukawa Electric Latam
Dave Constant	BASF	
Derek Huffman	Corning	Corning
Franc	Henry	Belden
Gang HE	EXFO	EXFO
Goldstein	Seymour	Fluke Networks
Greg Sandels	OFS	
HUANG	LEI	LEGRAND
Heisler	Christopher	OptoTest
Hodson	Tom	Total Cable Solutions
Jahani	Hamid	JGR Optics Inc.
Jenkins	TIA Teesha	TIA
Kolczynski	Emmanuel	
Kose	Panduit Bulent	Panduit Corp.
Kunplin	Salin	Belden
LEVITON	Mark Dearing	
Manley	Paul	AFL
Montstream	Cindy	Legrand
Morris	Dan	KITCO
Ninomiya	Tiger	SENKO Advanced Components, Inc.
Oliver	Nelson	Belden
PROVOST	Lionel	Prysmian Group
Patrick VanVickle	Sumitomo	Sumitomo Electric Lightwave
Phil Irwin	Panduit	Panduit
Pondillo	Peter	Corning Incorporated
Roman Shubochkin	OFS	OFS
Ron Tellas	Belden	
Rosenast	Erich	
Ryan	Jim	Prysmian
SWANSON	STEVEN	Corning Incorporated
Saab	Nicolas	Wirewerks
Schmalzigaug	Thomas	HUBER+SUHNER
Shelly Buchter	US Conec	
Siev	Vírak	Belden Canada ULC
Tourreau	Patrick	Photon Kinetics
Valentukonis	Dave	Siemon
Vicki Stafford	Intertek	
Weimann	Peter	OFS Fitel, LLC
Young	James	
dallmann	richard	CABLExpress
kozischek	david	corning

Quorum call complete. 21 companies present out of the required 13, quorum met.

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Meeting Report

24 Companies listed in quorum		Total members at meeting		28	24	29
13 Companies needed to form quorum						
21 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 the last 3 mtgs attended	Virtual	Virtual
	Company				4-Feb	7-Oct
					20-Jun	
ME	3M					
ME	AEM					
ME	AFL					
ME	AFL Hyperscale		Voting	3	1	1
ECP	Belden Networks Division		Voting	3	1	1
ME	BR+A Consulting Engineers			1		1
ME	Cable Express		Voting	3	1	1
ME	CommScope		Voting	3	1	1
ME	Convergent Connectivity Technologies			1		
ME	Corning Incorporated		Voting	3	1	1
ME	Ericsson			1		1
ME	Exfo		Voting	3	1	1
ME	Exporior Laboratories		Voting	2		1
ME	Fluke Networks		Voting	2	1	1
ME	Furukawa				1	
ME	Global Datacenter Engineering			2		1
ME	Hitachi					
ECP	Huber + Suhner		Voting	2	1	1
ME	JGR Optics Inc		Voting	1	1	1
ME	JP Morgan Chase			1		1
ME	KITCO Fiber Optics		Voting	3	1	1
ME	Legrand		Voting	3	1	1
ME	Leviton		Voting	2	1	1
	NAVAIR					
	NAVSEA			2		1
ME	OFS		Voting	3	1	1
ME	OptoTest Corp		Voting	3	1	1
ME	Panduit Corp.		Voting	3	1	1
ME	Photon Kinetics, Inc.		Voting	3	1	1
ME	Prysmian Group, The		Voting	2	1	1
ME	R&M			1	1	
	RIT Tech			1	1	
ME	Rosenberger			1		1
ME	Senko		Voting	3	1	1
ME	Siemon Company, The		Voting	3	1	1
ME	Sumitomo Electric		Voting	3	1	1
ECP	Superior Essex		Voting	2	1	1
ME	Tempo		Voting	2	1	1
ME	Total Cable Solutions			1	1	1
ME	USConec LTD		Voting	3	1	1
	BASF				1	
	Intertek				1	

1.3. Current Meeting Agenda Review and Approval

Meeting agenda TR42.12-2021-02-001.agenda_v3 was approved without objection.

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Meeting Report

1.4. Previous Meeting Report Review and Approval

Meeting report TR42.12-2020-10-001.report_v2 was approved without objection.

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

The following documents distributed via TIACONnect

Table 1. Contributions

Document	Contributor	Affiliation	Title
TR42.12-2021-02-001	Van Vickle	Sumitomo	Meeting Agenda
TR42.12-2021-02-002	Pondillo	Corning	IEC SC86A Report
TR42.12-2021-02-003	Kezisehek	Corning	ITU Report
TR42.12-2021-02-004	Van Vickle	Sumitomo	ICEA Report
TR42.12-2021-02-005	Tourreau	Photon Kinetics	Presentation regarding adoption updates.
TR42.12-2021-02-006	Tourreau	Photon Kinetics	ANSI-TIA-455-133 Project Request
TR42.12-2021-02-007	Tourreau	Photon Kinetics	ANSI-TIA-455-203 Project Request
TR42.12-2021-02-008	Tourreau	Photon Kinetics	ANSI-TIA-455-204 Project Request
TR42.12-2021-02-009			
TR42.12-2021-02-010	VanVickle	Sumitomo	Colorimeter Results
TR42.12-2021-02-011	VanVickle	Sumitomo	Ballot Authorization - Adapt IEC 60793-2:2015 as ANSI/TIA-4920000-C
TR42.12-2021-02-012	VanVickle	Sumitomo	Ballot Authorization - Adapt 60793-2-10:2019 as ANSI/TIA-492AAAF
TR42.12-2021-02-013	VanVickle	Sumitomo	Publication Authorization – ANSI/TIA-455-178



Meeting Report

Document	Contributor	Affiliation	Title
TR42.12-2021-02-014	Weimann	OFS	FOTP 3 Ballot Resolution
TR42.12-2021-02-015	Irwin	Panduit	ANSI-TIA-455-111 Project Request

1.7. Chair's Report and General Items

1.8. List of Standards and TSBs from Subcommittee

Please reference the tracking spreadsheet located in TIAConnect TR42.12 workspace.

1.9. Liaison letters received

1.10. Reports

1.10.1. IEC SC86A - TR42.12-2020-10-002

Please note a virtual meeting will be held for USTAG 86A 10:00am – 12:00pm CST 2/8 (week after this meeting), please register and attend.

<https://attendee.gotowebinar.com/register/297499670526692621>

1.10.2. ITU-T - Verbal report, no meeting since last TIA meeting.

- Recommendation L.oehc "Optical/Electrical hybrid cables for access point and other terminal equipment".
- Discussion on the introduction into revised L.201/L.13 of a damp heat test to assess long-term performances. (Closures)
- The open points of revised L.100/L.10 "Optical fibre cables for duct and tunnel application".
- L.400/L.12. Fibre Splices
- Recommendation L.ncip "Requirements for Passive Optical Nodes: nodes for customer indoor premises".

1.10.3. ICEA - TR42.12-2020-10-004

2. Old Business

2.1. TIA-455-3 (FOTP-3) Temperature Ramps and Precision

Comment resolution held TR42.12-2021-10-014.

Ballot 18 approve, 13 abstain, 0 negative

All comments editorial, reviewed and dispositioned.

A motion to publish to ANSI ballot was moved, seconded and approved without objection.

2.2. TIA-455-111 (FOTP-111), fiber curl, adoption of IEC 60793-1-34

Update from Phil Irwin on monitoring the timing of the IEC publication. IEC publishing in March 2021.



Meeting Report

A motion to open project was put forward, seconded and approved without objection, TR42.12-2021-10-015.

2.3. TIA-455-244 (FOTP-244), Temperature cycling of expressed tubes

Published 2020.9.18, project closed.

2.4. TIA-492 Series Restructuring

2.4.1. Generic (Adapt IEC 60793-2:2019 as ANSI/TIA-4920000-C)

Published, need to open project to update 492 cross references, will do this in next meeting. Also confirm the adopted document is the 2019 edition and not the 2015.

2.4.2. Multimode (Adapt 60793-2-10:2019 as ANSI/TIA-492AAAF)

New project opened to update cross references in the document (TR42.12-2020-10-005 TIA-492 Fiber Designation Cross Reference Revision).

Ballot will be necessary, will request authorization in the meeting. TR42.12-2021-10-012

A motion to ballot to ANSI ballot was moved, seconded and approved without objection.

2.4.3. Singlemode (Adapt 60793-2-50:2018 as ANSI/TIA-492CAAC)

New project opened to update cross references in the document (TR42.12-2020-10-005 TIA-492 Fiber Designation Cross Reference Revision).

Ballot will be necessary, will request authorization in the meeting. TR42.12-2021-10-012

A motion to ballot to ANSI ballot was moved, seconded and approved without objection.

2.5. ANSI/TIA-598-D-2014

Still planning in person round robin of with color measurement devices and Munsell books.

Delayed until next in person meeting. Sumitomo Munsell book measurement results presented for information (TR42.12-2021-02-010). Sumitomo to follow-up and document relevant observation parameters. 2 deg standard? D65, North Sky Daylight is confirmed. Sunny is looking to add Sumitomo data to overall analysis and will present the summary in the June meeting.

Look at addressing project through:

2.5.1. Baseline Munsell books using colorimeters. (complete)

2.5.2. Round robin on color chips (golden sample) inter company, determine colorimeter accuracy. Pete Pondillo to check if he has samples to share. Once we determine timing of sending samples we will schedule a small group to setup the experiment. Patrick Van Vickie to schedule interim meeting for the following parties.

- OFS
- Corning
- Belden
- Sumitomo



Meeting Report

- Commscope
 - Prysmian
- 2.5.3. Determine a sample preparation method for ink or fiber to give repeatable results.
- 2.6. Update adoptions:**
 - 2.6.1. **TIA-455-78 adopted from IEC 60793-1-40 Optical Fibres - Part 1-40: Measurement Methods and Test Procedures – Attenuation**
Published 2020.12.3. Project closed.
 - 2.6.2. **TIA-455-62 adopted from IEC-60793-1-47 Optical Fibres – Part 1-47: Measurement Methods and Test Procedures – Macrobending Loss**
Published 2020.12.3. Project closed.
 - 2.6.3. **TIA-455-80 adopted from IEC-60793-1-44 Optical Fibres – Part 1-44: Measurement Methods and Test Procedures – Cut-off Wavelength**
Published in TIA system, but not yet on IHS Global, TIA is following up with IHS.
 - 2.6.4. **TIA-455-175 adopted from IEC-60793-1-42 Optical Fibres – Part 1-42: Measurement Methods and Test Procedures – Chromatic Dispersion**
Published 2020.12.3. Project closed.
 - 2.6.5. **TIA-455-176 adopted from IEC-60793-1-20 Optical Fibres – Part 1-20: Measurement Methods and Test Procedures – Fibre Geometry**
Published 2020.12.3. Project closed.
 - 2.6.6. **TIA-455-177 adopted from IEC-60793-1-43 Optical Fibres – Part 1-43: Measurement Methods and Test Procedures – Numerical Aperture**
Published 2020.12.3. Project closed.
 - 2.6.7. **TIA-455-178 adopted from IEC-60793-1-32 Optical Fibres – Part 1-32: Measurement Methods and Test Procedures – Coating Stripability**
Reballoted due to lack of participation on first ballot. Ballot passed, will request authorization to publish in meeting. TR42.12-2021-10-013
A motion to publish was put forward, seconded and approved without objection.
 - 2.6.8. **TIA-455-67 adopted from IEC-60793-1-51 Optical Fibres- Part 1-51: Measurement Methods and Test Procedures- Dry Heat**
Published 2020.12.3. Project closed.
 - 2.6.9. **TIA-455-74 adopted from IEC-60793-1-53 Optical Fibres- Part 1-53: Measurement Methods and Test Procedures- Water Immersion**
Published 2020.12.3. Project closed.



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2.6.10. TIA-455-160 adopted from IEC-60793-1-50 Optical Fibres- Part 1-50: Measurement Methods and Test Procedures- Damp Heat (Steady State)

Published 2020.12.3. Project closed.

2.6.11. TIA-455-122 adopted from Adopt IEC 60793-1-48: Measurement Methods and Test Procedures-Polarization Mode Dispersion

Published 2020.12.3. Project closed.

3. New Business

3.1. Update adoptions:

3.1.1. TIA-455-133 adopted IEC-60793-1-22:2001 Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement

Vote to open project - TR42.12-2021-02-006.ANSI-TIA-455-133-Revision Project Request Form

A motion to open project was put forward, seconded and approved without objection.

3.1.2. TIA-455-203 adopted IEC-61280-1-4 Fibre Optic Communication Subsystem Test Procedures - Part 1-4: General Communication Subsystems - Light Source Encircled Flux Measurement Method

Vote to open project - TR42.12-2021-02-007.ANSI-TIA-455-203-Revision Project Request Form

A motion to open project was put forward, seconded and approved without objection.

3.1.3. TIA-455-204 adopted IEC-60793-1-41:2010 Optical fibres - Part 1-41: Measurement methods and test procedures – Bandwidth

Vote to open project - TR42.12-2021-02-008.ANSI-TIA-455-204-Revision Project Request Form

A motion to open project was put forward, seconded and approved without objection.

3.2. Recession/Obsolete Documents Discussions (TR42.12-2021-10-005)

3.2.1. FOTP 30 - Frequency Domain Measurement of Multimode Optical Fiber Information Transmission Capacity

Discussed and would like to withdrawal, but referenced in other organizations including IEEE. A liaison letter to be written and approved in the next meeting announcing its withdrawal and suggesting a replacement. Maybe already withdrawn in Aug 2002, confirming.

3.2.2. FOTP 54 - Mode Scrambler Requirements for Overfilled Launching Conditions to Multimode Fibers



Meeting Report

Discussed and would like to withdrawal, but referenced in other organizations including IEEE. A liaison letter to be written and approved in the next meeting announcing its withdrawal and suggesting a replacement.

- 3.2.3. FOTP 124 - Polarization-Mode Dispersion Measurement for Single-Mode Optical Fibers by Interferometry (Merge with FOTP 122?)

May be ready for withdrawal, but need to search for cross references. Will review in next meeting.

- 3.3. Standards Spreadsheet review -

https://docs.google.com/spreadsheets/d/1pkIMX2Vve9VhNyAXb9WB8xyZvDgdpPZk_SkZdyI3Xko/edit?usp=sharing

- 3.4. Comments from members for TIA and TR42 regarding TIA Connect:

- Please check into balloting "how to" to direct people to not enter comments in a one by one, but use a single comment and use the comment resolution template.
- Upload the word comment template to the main TR42 documents folder.
- Confirm if we can leave the ballot status as blind and not show the approve/negative/abstain while the ballot is live, but do see them after ballot closes.
- If ballot status is shown live, only show return rate, determine if close to successfully closing.
- Document downloads are cumbersome. Way to download an entire folder without them being in a "collection"? Way to determine and sort by most recently updated?

4. Next meeting

Currently scheduled for June 7-10

Conflicts:

- OFC, June 7-10 (approximately half of the attendees conflict)
- ICEA June 7-9 (may be able to work around TIA meetings, but difficult)

Request half day for 42.12, 2 hours for USTAG meetings.

5. Adjournment

The meeting was adjourned at 11am CST.

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 access contributions and other meeting documents before the meeting by accessing the following TR-42.12 Standalone Library:

<https://connect.tiaonline.org/communities/community-home/librarydocuments?LibraryKey=3EAA9087-C7B2-4503-9DFB-C3787088B28D>

AVAILABILITY OF MEETING DOCUMENTS:

TR-42.12 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-42.12 Optical Fibers and Cables*"
- Click on "*Documents*" and then select the "*2021-02 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.



Meeting Report

Questions and comments on this agenda should be submitted to:

Patrick Van Vickle, Chair	pvanvickle@sumitomoelectric.com	919.541.8153
Roman Shubochkin, Vice-Chair	RShubochkin@ofsoptics.com	