



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: 16 June 2021

Location: Teleconference

Approved: 29 June 2021



Meeting Report

TR-42.12 Telecommunications Cabling Systems Engineering Committee

Date: 2021.06.16
Time: 2:15pm – 6:00pm (CDT)
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/8657700106939074315>

1. Administrative/General Business

1.1. Call to Order

Called to order 2:15 CDT

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)

Meeting sign-in link: attendance will be collected via GoToWebinar



Meeting Report

Last Name	First Name	Email Address	Organization
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Shirley Ball	Amazon	shirball@amazon.com	AWS Metro Fiber



Meeting Report

26 Companies listed in quorum		Total members at meeting					24	29	25	30	23	21
14 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	Virtual	Virtual	NOLA	Albuquerque
	Company						16-Jun	4-Feb	7-Oct	20-Jun	20-Jan	19-Sep
ME	3M											
ME	AEM											
ME	AFL											
ME	AFL Hyperscale			Voting	3	1	1	1	1	1	1	
ECP	Amazon			Voting	3	1	1	1	1	1	1	
ECP	Belden Networks Division			Voting	3	1	1	1	1	1	1	1
	BASF				1		1					
ME	BR+A Consulting Engineers				1				1			
ME	Cable Express			Voting	3	1	1	1	1	1	1	1
ME	CommScope			Voting	3	1	1	1	1	1	1	1
ME	Convergent Connectivity Technologies									1	1	1
ME	Corning Incorporated			Voting	3	1	1	1	1	1	1	1
ME	Ericsson				1				1			
ME	Exfo			Voting	3	1	1	1	1	1	1	
ME	Experior Laboratories		Send Ltr	Voting	1				1	1	1	1
ME	Fluke Networks			Voting	2	1	1	1		1	1	
ME	Furukawa				1		1					
ME	Global Datacenter Engineering				1				1	1		
ME	Hitachi											
ECP	Huber + Suhner			Voting	3	1	1	1	1			1
	Intertek				1		1					
ME	JGR Optics Inc			Voting	2		1		1			1
ME	JP Morgan Chase				1				1			
ME	KITCO Fiber Optics			Voting	3	1	1	1	1	1	1	1
ME	Legrand			Voting	3	1	1	1	1	1	1	1
ME	Leviton			Voting	3	1	1	1	1			1
	NAVAIR											
	NAVSEA				1				1	1		
ME	OFS			Voting	3	1	1	1	1	1	1	1
ME	OptoTest Corp			Voting	3	1	1	1	1	1	1	1
ME	Panduit Corp.			Voting	3	1	1	1	1	1	1	1
ME	Photon Kinetics, Inc.			Voting	3	1	1	1	1	1	1	1
ME	Prysmian Group, The			Voting	2	1	1	1		1	1	1
ME	R&M				2	1	1	1				1
	RIT Tech				1			1				
ME	Rosenberger				1				1			
ME	Senko			Voting	3	1	1	1	1	1	1	1
ME	Siemon Company, The			Voting	3	1	1	1	1	1	1	1
ME	Sumitomo Electric			Voting	3	1	1	1	1	1	1	1
ECP	Superior Essex			Voting	3	1	1	1	1			1
ME	Tempo			Voting	3	1	1	1	1			
ME	Total Cable Solutions			Voting	2		1		1			
ME	USConec LTD			Voting	3	1	1	1	1	1	1	

1.3. Current Meeting Agenda Review and Approval

Meeting report TR42.12-2021-02-001_agendav3 was approved without objection.

1.4. Previous Meeting Report Review and Approval

Meeting report TR42.12-2021-02-001_reportv2 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

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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
TR42.12-2021-06-001	Van Vickle	Sumitomo	Meeting Agenda
TR42.12-2021-06-002	Pondillo	Corning	IEC SC86A Report
TR42.12-2021-06-003	Kozischek	Corning	ITU Report
TR42.12-2021-06-004	Kozischek	Corning	ICEA Report
TR42.12-2021-06-005	Tourreau	PK	Draft IEEE Liaison Letter (FOTP 30)
TR42.12-2021-06-006	Tourreau	PK	Draft IEEE Liaison Letter (FOTP 54)
TR42.12-2021-06-007	Tourreau	PK	Draft ICEA Liaison Letter (FOTP 124)
TR42.12-2021-06-008	Tourreau	PK	FOTP 122 Discussion
TR42.12-2021-06-009	Xu	Commscope	Munsell Colorimeter Compiled Data
TR42-2021-06-059	ICEA	ICEA	ICEA Liaison Letter

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

TR42-2021-06-059 ICEA Liaison Letter

1.10. Reports

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

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Please note a virtual meeting will be held for **USTAG 86A 1:15pm – 6:00pm CST** 6/17 please register and attend. This meeting has been moved due to work in other subcommittees. **New time is Tuesday, 6/22, 3pm-5pm EDT.**
<https://attendee.gotowebinar.com/register/8120681035747485967>

1.10.2. ITU-T - TR42.12-2020-10-003

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

2. Old Business

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

Ballot issuing ahead of meeting, but won't close until July.

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

IEC published in March 2021. Update from Phil Irwin on next steps.

2.3. TIA-492 Series Restructuring

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

Pete Pondillo to check to see if new IEC published document to adapt.

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

Need to open project to update 492 cross references, but may choose to update as "errata" rather than full revision.

Motion to send the errata to TIA for TIA-492AAAF for publication was moved, seconded and approved without objection.

Motion to withdraw current ANSI project to revise TIA-492AAAF, moved, seconded and approved without objection.

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

Need to open project to update 492 cross references, but may choose to update as "errata" rather than full revision.

Motion to send the errata to TIA for TIA-492CAAC for publication was moved, seconded and approved without objection.

Motion to withdraw current ANSI project to revise TIA-492CAAC, moved, seconded and approved without objection.

2.4. ANSI/TIA-598-D-2014

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Sunny Xu is adding Sumitomo data to overall analysis and will present the summary in the June meeting. (TR42.12-2021-06-009)

Look at addressing project through:

- 2.4.1. Baseline Munsell books using colorimeters. (complete)
- 2.4.2. Round robin on color chips (golden sample) inter company, determine colorimeter accuracy. Pete Pondillo (pondillopl@corning.com) to send out samples, please send him your address/contact. Sunny to schedule meeting to discuss equipment settings, etc.
 - o OFS (Pete Weimann)
 - o Corning (Pete Pondillo)
 - o Belden (Ron Tellas/Nelson Oliver)
 - o Sumitomo (Joel Lisanti)
 - o Commscope (Sunny Xu)
 - o Prysmian (Lionel Provost)
- 2.4.3. Determine a sample preparation method for ink or fiber to give repeatable results. (Pete Pondillo & Pete Weimann)

2.5. Update adoptions:

- 2.5.1. **TIA-455-80 adopted from IEC-60793-1-44 Optical Fibres – Part 1-44: Measurement Methods and Test Procedures – Cut-off Wavelength**
Confirmed published since last meeting, project closed.
- 2.5.2. **TIA-455-133 adopted IEC-60793-1-22:2001 Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement**
Project is open, document to go to ballot.
- 2.5.3. **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**
Project is open, document to go to ballot.
- 2.5.4. **TIA-455-204 adopted IEC-60793-1-41:2010 Optical fibres - Part 1-41: Measurement methods and test procedures – Bandwidth**
Project is open, document to go to ballot.
- 2.5.5. **TIA-455-178 adopted from IEC-60793-1-32 Optical Fibres – Part 1-32: Measurement Methods and Test Procedures – Coating Stripability**
Confirmed published since last meeting, project closed.

3. Recession/Obsolete Documents Discussions



Meeting Report

3.1.1. 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 reviewed. Maybe already withdrawn in Aug 2002, confirming.

A motion to forward the document to the TR42 plenary to send to the IEEE was moved, seconded approved by acclimation.

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

Discussed and would like to withdrawal, but referenced in other organizations including IEEE. A liaison letter was reviewed. Also referenced in TIA 455-171, we will review its content.

A motion to forward the document to the TR42 plenary to send to the IEEE was moved, seconded approved by acclimation.

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

Discussed and would like to withdrawal, but referenced in other organizations including ICEA. A liaison letter was reviewed.

A motion to forward the document to the TR42 plenary to send to the ICEA was moved, seconded approved by acclimation.

4. New Business

4.1. ICEA Liaison Letter (Incoming) - ICEA/TIA Collaboration for Cable Test Methods

TR42-2021-06-059

Concerns were expressed that a lack of user/producer and international perspective in ICEA will limit the updates to a regional perspective. Letter back to ICEA discussing concerns to be sent to Plenary.

4.2. Draft IEEE Liaison Letter (FOTP 30)

TR42.12-2021-06-005 – Reviewed and approved to send.

4.3. Draft IEEE Liaison Letter (FOTP 54)

TR42.12-2021-06-006 – Reviewed and approved to send.

4.4. Draft ICEA Liaison Letter (FOTP 124)



Meeting Report

TR42.12-2021-06-007 – Reviewed and approved to send.

4.5. FOTP 122 Discussion

TR42.12-2021-06-008

4.6. Standards Spreadsheet review -

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

5. Next meeting

Date to be discussed, uncertain, but overlaps with IEC.

6. Adjournment

The meeting was adjourned at 4:26 pm CDT.

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

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



Meeting Report

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 agenda should be submitted to:

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