## Industry Standards Activity Overview

### TIA

**Most Recent Plenary Meeting:** January 28 - February 1, 2019 in Orlando, FL  
**Updated:** March 5, 2019

### TR-42.1 Premises Telecommunications Infrastructure:

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<th>ANSI/TIA-568.0-D</th>
<th>Generic Telecommunications Cabling for Customer Premises</th>
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<td>Customer Premises, Addendum 1: Updated References, Accommodation of New Media Types</td>
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<td>Residential Telecommunications Standard</td>
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<td>ANSI/TIA-758-C</td>
<td>Telecommunications Infrastructure Standard</td>
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<td>ANSI/TIA-862-B</td>
<td>Building Automation Systems Cabling Standard</td>
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<td>ANSI/TIA-862-B-1</td>
<td>Structured Cabling Infrastructure Standard for Intelligent Building Systems, Addendum 1: Updated References, Accommodation of New Media Types</td>
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<td>ANSI/TIA-942-B</td>
<td>Telecommunications Infrastructure Standard for Data Centers</td>
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<td>ANSI/TIA-942-A-1</td>
<td>Data Centers, Addendum 1 – Cabling Guidelines for Data Center Fabrics</td>
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<td>ANSI/TIA-1179-A</td>
<td>Healthcare Facility Telecommunications Infrastructure Standard</td>
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<td>ANSI/TIA-4966</td>
<td>Telecommunications Infrastructure for Educational Buildings and Spaces</td>
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<td>Educational Facilities, Addendum 1: Updated References, Accommodation of New Media Types</td>
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<td>ANSI/TIA-4966-A</td>
<td>Telecommunications Infrastructure Standard for Educational Facilities</td>
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<td>ANSI/TIA-5017</td>
<td>Telecommunications Physical Network Security Standard Working</td>
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<td>ANSI/TIA-5018</td>
<td>Structured Cabling Infrastructure Standard to support Distributed Antenna Systems</td>
<td>Published</td>
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<td>ANSI/TIA-xxxx</td>
<td>Places of Assembly</td>
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TSB-162-A  Telecommunications Cabling Guidelines for Wireless Access Points  Published
TSB-185  Environmental Classification (MICE) Tutorial  Published

TR-42.2 Residential Infrastructure (Disbanded):
ANSI/TIA-570-C  Residential Telecommunications Infrastructure  Published

TR-42.3 Telecommunications Administration, Pathways, Spaces, Bonding and Grounding:
ANSI/TIA-569-D  Commercial Building Standard for Telecommunications Pathways and Spaces  Published
ANSI/TIA-569-D-1  Revised Temperate and Humidity requirements for Telecommunications Spaces  Published
ANSI/TIA-569-D-2  Additional Pathway and Space Considerations for Supporting Remote Powering over Balanced Twisted Pair Cabling  Published
ANSI/TIA-569-E  Commercial Building Standard for Telecommunications Pathways and Spaces  Circulating for Default Ballot
ANSI/TIA-569-D-2  Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises  Circulating for Industry Ballot

TR-42.4 Outside Plant (Disbanded):
ANSI/TIA-758-B  Customer-Owned Outside Plant Telecommunications Infrastructure Standard  Published

TR-42.5 Terms and Symbols:
ANSI/TIA-440-C  Fiber Optic Terminology  Published

TR-42.6 Infrastructure Administration:
ANSI/TIA-606-C  Administration Standard for Telecommunications Infrastructure  Published
ANSI/TIA-5048  Automated Infrastructure Management (AIM) Systems – Requirements, Data Exchange and Applications  Published

TR-42.7 Copper Cabling:
ANSI/TIA-568.2-D  Balanced Twisted-Pair Telecommunications Cabling and Components Standard  Published
ANSI/TIA-568.2-D-1  Balun Specifications for Testing Category 8 Cabling and Components  Approved for Publication
ANSI/TIA-568.4-D  Broadband Coaxial Cabling and Components Standard  Published
ANSI/TIA-568.5  Single Twisted-pair Cabling and Components Standard  Circulating for Mock Ballot
ANSI/TIA-1152-A  Requirements for Field Test Instruments Measurement Methods and Test Fixtures for Balunless Measurements of Balanced Components and Systems  Published
ANSI/TIA-1183-A  Guidelines for the Assessment and Mitigation of Installed Category 6 Cabling to Support 10GBASE-T  Published
TSB-155-A  Guidelines for Supporting Power Delivery Over Balanced Twisted-Pair Cabling  Published

TSB-190 Guidelines on Shared Pathways and Shared Sheaths Reaffirmed

TSB-1197 Mode Conversion Parameters for Balanced Twisted-Pair Cabling Published

TSB-5008 Mechanically-Generated Cable Impulse Noise Detection and Characterization Published

TSB-5019 High Performance Structured Cabling (HPSC) Applications Published

TSB-5021 Guidelines for the use of Installed Cabling to Support 2.5GBASE-T and 5GBASE-T Published

TR-42.8 Optical Fiber Cabling (Disbanded):

TIA-492AAAD Detail specification for OM4 850-nm laser-optimized, 50-μm core diameter/125-μm cladding diameter class la graded-index multimode optical fibers Published

TR-42.9 Industrial Infrastructure:

ANSI/TIA-1005-A Telecommunications Infrastructure Standard for Industrial Premises Published

ANSI/TIA-1005-A-1 M12-8 X-coding Connector for Industrial Premises Published

ANSI/TIA-1005-A-2 1G Industrial Cabling for Four Pair (100 meters) (1000BASE-T) for E2 and E3 Environments Circulating for Industry Ballot

ANSI/TIA-1005-A-3 1G Industrial Cabling for One Pair Type B (40 meters) (1000BASE-T1) for E2 and E3 Environments Circulating for Committee Ballot


TR-42.10 Sustainable Information Communications Technology:

ANSI/TIA-4994 Standard for Sustainable Information Communications Technology Published

TSB-5046 Standard Process for Sustainable Information Communications Technology Manufacturers Published

TR-42.11 Optical Fiber Systems:

ANSI/TIA-455-243 FOTP-243 Single-ended PMD test method Published

ANSI/TIA-526-14-C Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant Published

ANSI/TIA-568.3-D Optical Fiber Cabling Components Standard Published

ANSI/TIA-568.3-D-1 Optical Fiber Cabling Component Standard – Addendum 1, General Updates Published

TBS-172-A High Data Rate Multimode Fiber Transmission Techniques Published

TBS-178 Launch Condition Guidelines for Measuring Attenuation of Installed Multimode Cabling Withdrawn

TBS-4979 Practical Considerations for Implementation of Encircled Flux Launch Conditions in the Field Published

TBS-5069 Optical Fiber Channel Polarity - Duplex - Single Row Fiber - Double Row Fiber Polarity Circulating for Committee Ballot

TR-42.12 Optical Fibers and Cables:
| TIA-455-3-A | FOTP-3 Procedure to Measure Temperature Cycling Effects on Optical Fiber Units, Optical Cable, and Other Passive Fiber Components | Under Development |
| TIA-455-7-A | FOTP-7 Numerical Aperature of Step-Index Multimode Optical Fibers by Output Far-Field Radiation Pattern Measurement | Under Development |
| TIA-455-11-D | Vibration Test Procedure for Fiber Optic Components and Cables | Reaffirmed |
| TIA-455-12 | FOTP-12 Fluid Immersion Test for Fiber Optic Components | Reaffirmed |
| TIA-455-20-B | FOTP-20 Measurement Methods and Test Procedures - Monitoring of Changes in Optical Transmittance (adoption of IEC-60793-1-46) | Reaffirmed |
| TIA-455-25-D | FOTP-25 Impact Testing of Optical Fiber Cables | Published |
| TIA-455-28 | FOTP-28 Dynamic Tension (adoption of IEC 60793-1-33) | Under Development |
| TIA-455-31-C | FOTP-31 Proof Testing Optical Fibers by Tension | Reaffirmed |
| TIA-455-33-B | FOTP-33 Optical Fiber Cable Tensile Loading and Bending | Reaffirmed |
| TIA-455-39-B | FOTP-39 Fiber Optic Cable Water Wicking Test | Reaffirmed |
| TIA-455-57-B | FOTP-57 Preparation and Examination of Optical Fiber Endface for Testing Purposes | Reaffirmed |
| TIA-455-80 | FOTP-80 Patch Cord Wavelength | Under Development |
| TIA-455-82-B | FOTP-82 Fluid Penetration Test for Fluid-Blocked Fiber optic cable | Circulating for Industry Ballot |
| TIA-455-85-A | FOTP-85 Fiber optic cable Twist Test | Reaffirmed |
| TIA-455-86-A | FOTP-86 Fiber optic cable Jacket Shrinkage | Approved for Publication |
| TIA-455-87-B | FOTP-87 Fiber optic cable Knot Test | Published |
| TIA-455-95-B | FOTP-95 Absolute Optical Power Test for Optical Fibers and Cables | Published |
| TIA-455-100-A | FOTP-100 Gas Leakage Test for Gas-Blocked Fiber Optic Cables | Published |
| TIA-455-104-A | FOTP-104 Fiber Optic Cable Cyclic Flexing Test | Reaffirmed |
| TIA-455-104-B | FOTP-104 Fiber Optic Cable Cyclic Flexing Test | Published |
| TIA-455-123 | FOTP-123 Measurement of Optical Fiber Ribbon Dimension | Reaffirmed |
| TIA-455-131 | FOTP-131 Measurement of Optical Fiber Ribbon Residual Twist | Reaffirmed |
| TIA-455-137-A | FOTP-137 Standard Low or High Temperature Bend Test for Fiber Optic Cable | Circulating for Reaffirmation Ballot |
| TIA-455-141 | FOTP-141 Twist Test for Optical Fiber Ribbons | Reaffirmed |
| TIA-455-162-A | FOTP-162 Optical Fiber Cable Temperature-Humidity Cycling | Reaffirmed |
| TIA-455-176 | FOTP-176 Fiber Geometry, Gray Scale (adoption of IEC 60793-1-20) | Under Development |
| TIA-455-177 | FOTP-177 Graded-index MMF (adoption of IEC 60793-1-31) | Under Development |
| TIA-455-183 | FOTP-183 Hydrogen Effects on Optical Fiber Cable | Reaffirmed |
| TIA-455-192 | FOTP-192 H-Parameter Test Method for Polarization-Maintaining Optical Fiber | Reaffirmed |
| TIA-455-193 | FOTP-193 Polarization Crosstalk Method for Polarization-Maintaining Optical Fiber and Components | Reaffirmed |
| TIA-455-204-A | FOTP-204 Measurement of Bandwidth on Multimode Fiber | Published |
| TIA-455-220 | FOTP-220 DMD Measurement (adoption of IEC 60793-1-4) | Under Development |
| TIA-455-244 | FOTP-244 Expressed Tube Temperature Cycling FOTP-244-A Methods for Measuring the Change in Transmittance of Optical Fibers in Expressed Buffer Tubes When Subjected to Temperature Cycling Standard Test Procedure for Fiber Optic Fibers, Cables, Transducers, Sensors, Connecting and Terminating Devices, and other Fiber | Published |
| TIA-455-C | ICEA S-112-718-2008 - Standard for Optical Fiber for Placement in Sewer Environments | Published |
| TIA-472G000 | General Specification for Optical Fibers (adoption of IEC 60793-2) | Under Development |
| TIA-4920000-C | Detail Specification for 50-µm Core Diameter/125-µm Cladding Diameter Class 1a Graded-Index Multimode Optical Fibers with Laser-Optimized Bandwidth Characteristics Specified for Wavelength Division Multiplexing Sectional Specification for Category A1 Graded-Index Multimode Optical Fibers (adoption of IEC 60793-2) | Published |
| TIA-492AAAF | Optical Fiber Cable Color Coding Standard - Addendum 1, Additional Colors | Published |
| TIA-492AAAF | Optical Fiber Cable Color Coding Standard - Addendum 2, Jacket Color for Wideband Laser-Optimized 50/125 µm Multimode Fiber Cables (OM5) | Published |
| TIA-598-E | Optical Fiber Color Coding | Under Development |

**TR-42.13 Passive Optical Devices and Components:**

<p>| TIA-604-5-F | FOCS 5 - Fiber Optic Connector Intermateability Standard, Type MPO (Multi-fiber Push On) | Published |
| TIA-455-11-D | FOTP-11: Vibration Test Procedure for Fiber Optic Components and Cables | Published |
| TIA-455-171-B | Multimode Graded Index and Single-Mode Optical Fiber Cable Assemblies” circulating for committee ballot | Published |
| TIA-455-224 | FOTP-224 - Calibration of Fibre Optic Chromatic Dispersion Test Sets | Under Development |
| TIA-455-225 | FOTP-225 - Endface Image Analysis Procedure for the Calibration of Optical Fibre Geometry Test Sets (IEC 61745) | Published |
| TIA-455-231 | FOTP-231 Calibration of Fibre-Optic Power Meters (IEC 61315 Ed.2) | Published |</p>
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<td>TIA-604-3-B</td>
<td>FOCIS 3 - Fiber Optic Connector Intermateability Standard, Type SC</td>
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<td>TIA-604-4-B</td>
<td>FOCIS 4 - Fiber Optic Connector Intermateability Standard, Type FC and FC-APC</td>
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<td>TIA-604-5-E</td>
<td>FOCIS-10 - Fiber Optic Connector Intermateability Standard, Type MPO (Multi-fiber Push On)</td>
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<td>FOCIS 15 - Fiber Optic Connector Intermateability Standard - Type LC</td>
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<td>TIA-604-18-A</td>
<td>FOCIS 18 Fiber Optic Intermateability Standard - Type MF and Type 1x16 and 2x16 Multifiber</td>
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<td>TIA-604-19</td>
<td>FOCIS 19 - Fiber Optic Connector Intermateability Standard, Type Sen-01 Connector</td>
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<td>TIA-1048</td>
<td>Reliability of Fibre Optic Interconnecting Devices and Passive Components - Part 7: Life Stress</td>
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<td>TSB-143-A</td>
<td>Fiber Optic Power Meters</td>
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<td>TSB-4947</td>
<td>Guidance for Adhesive Usage in Fiber Optic Components</td>
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**TR-42.16 Grounding and Bonding (Disbanded):**

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<td>ANSI/TIA-607-C</td>
<td>Telecommunications Grounding (Earthing) and Bonding for Customer Premises</td>
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<td>Errata</td>
<td>Fixed typographical error in ANSI/TIA-607-C</td>
<td>Published</td>
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<td>ANSI/TIA-607-C-1</td>
<td>Bonding in Multi-tenant Buildings</td>
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**IEEE 802.3 Ethernet Working Group**

**Most Recent Plenary Meeting:** January 14 - 18, 2019 in Long Beach, CA  
**Updated:** March 4, 2019

**Maintenance Revision of IEEE Std. 802.3-2018:**

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**802.3bt DTE Power via MDI over 4-Pair Task Force:**

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<tr>
<td>Standard for Ethernet Amendment 2: Physical Layer and Management Parameters for DTE Power via MDI over 4-Pair</td>
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**802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Ethernet Passive Optical Networks Task Force:**

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<td>Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks</td>
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**802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Copper Cables Task Force:**

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<td>Standard for Ethernet Amendment 1: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane and Copper Cables</td>
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<td>802.3cd</td>
<td>50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet Task Force: Standard for Ethernet Amendment 3: Media Access Control Parameters for 50 Gb/s and Physical Layer and Management Parameters for 50 Gb/s, 100 Gb/s, and 200 Gb/s Operation Circulating for Sponsor ballot</td>
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<td>YANG Data Model Definitions Task Force: IEEE 802.3.2 Standard for Ethernet YANG Data Model Definitions Circulating for Sponsor ballot</td>
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<td>802.3cg</td>
<td>10 Mb/s Single Twisted Pair Ethernet Task Force: Physical Layer Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors Circulating for Sponsor ballot</td>
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<td>Multi-Gig Automotive Ethernet PHY Task Force: Physical Layer Specifications and Management Parameters for Greater than 1 Gb/s Automotive Ethernet Circulating for Task Force review</td>
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<td>802.3ck</td>
<td>100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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<td>400 Gb/s over Multimode Fiber Task Force: Physical Layer and Management Parameters for 400 Gb/s over Multimode Fiber Task Force draft under Development</td>
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<td>50 Gb/s, 200 Gb/s, and 400 Gb/s over greater than 10 km of SMF Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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<td>Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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<td>Isolation (Maintenance #14) Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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<td>Increased-reach Ethernet optical subscriber access (Super-PON) Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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<td>100 Gb/s and 400 Gb/s over DWDM systems Task Force: Project Authorization Request, Objectives, and 5 Criteria under development Task Force draft under Development</td>
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**Updated:** May, 2019
### Building Information Modeling (BIM) Subcommittee:

- **ANSI/BICSI-003-2014**: Building Information Modeling Practices for Information Technology Systems
  - Under revision as draft D049

### Bonding and Grounding Subcommittee:

- **ANSI/NECA/BICSI-607-2010**: Telecommunications Bonding and Grounding Planning and Installation Methods for Commercial Buildings
  - Published
- **ANSI/BICSI N3**: Telecommunications Bonding and Grounding Planning and Installation Methods for Commercial Buildings
  - Under revision as draft D048

### Data Center Subcommittee:

- **ANSI/BICSI-009-2019**: Data Center Operations and Maintenance Best Practices
  - Published
- **EDCP-2019**: Essentials of Data Center Projects
  - Published

### Distributed Antenna Systems (DAS) Subcommittee:

  - Published

### Education Subcommittee:

  - Published

### Electronic Safety and Security Subcommittee:

  - Published

### Healthcare Subcommittee:

  - Published

### ICT Cabling Installation Subcommittee:

- **ANSI/NECA/BICSI-568-2006**: Standard for Installing Commercial Building Telecommunications Cabling
  - Published

### Intelligent Building Subcommittee:
### ANSI/BICSI-007-2017
Information Communication Technology Design and Implementation Practices for Intelligent Buildings and Premises
Under revision as draft D053

### Outside Plant (OSP) Installation Subcommittee:

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<td>Outside Plant Construction &amp; Installation: General Practices</td>
<td>Published</td>
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<tr>
<td>BICSI G1.2</td>
<td>OSP Installation: Cable Splicing and Termination</td>
<td>Under development as draft D040</td>
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<tr>
<td>BICSI G2</td>
<td>OSP Installation: Aerial Pathways – General</td>
<td>Under development as draft D051</td>
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<tr>
<td>BICSI G2.1</td>
<td>OSP Installation: Holes, Poles, Anchors, Guys</td>
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### Power over Ethernet Supplement:

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<tr>
<td>ANSI/BICSI N2-17</td>
<td>Practices for the Installation of Telecommunications and ICT Cabling Intended to Support Remote Power Applications</td>
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### Wireless Subcommittee:

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<td>ANSI/BICSI-008-2018</td>
<td>Wireless Local Area Network (WLAN) Systems Design and Implementation Best Practices</td>
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**ISO/IEC JTC 1/SC 25/WG 3 - Customer Premises Cabling**

**Most Recent Meeting:** September 7 - 11, 2015 in Milan, Italy  
**Updated:** November 30, 2015

**ISO/IEC Standards:**

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<tr>
<td>ISO/IEC 11801-1</td>
<td>Information technology – Generic cabling systems – Part 2: Generic Cabling</td>
<td>Published</td>
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<tr>
<td>ISO/IEC 11801-2</td>
<td>Information technology – Generic cabling systems – Part 2: Generic Cabling for customer premises</td>
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<td>ISO/IEC 11801-3</td>
<td>Information technology – Generic cabling systems – Part 3: Industrial premises</td>
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<td>ISO/IEC 11801-4</td>
<td>Information technology – Generic cabling systems – Part 4: Homes</td>
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<td>ISO/IEC 11801-5</td>
<td>Information technology – Generic cabling systems – Part 5: Data centres</td>
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<td>ISO/IEC 11801-6</td>
<td>Information technology – Generic cabling systems – Part 6: Distributed Building Services</td>
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<td>ISO/IEC TR 11801-99-02</td>
<td>Information technology – Generic cabling: End-to-End Link</td>
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<td>ISO/IEC TR 11801-99-04</td>
<td>Information Guidelines - Guidelines for the use of installed cabling to support 2,5 GBASE-T and 5 GBASE-T applications</td>
<td>Work Item Approved</td>
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<td>ISO/IEC 14763-2 AMD 1</td>
<td>Information technology – Implementation and operation of customer premises cabling - Part 2: Planning and installation – AMD for AIM</td>
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<td>ISO/IEC 14763-3 Ed 2.0</td>
<td>Information technology – Implementation and operation of customer premises cabling - Part 3: Testing of optical fibre cabling</td>
<td>Under Development</td>
</tr>
<tr>
<td>ISO/IEC TR 17979-1-1</td>
<td>Information technology – Application specific cable assemblies – Twinax cable assemblies – Type 1 Cable assembly</td>
<td>Work Stopped by ISO – lack of progress</td>
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<tr>
<td>ISO/IEC 18598</td>
<td>Information technology – Automated infrastructure management (AIM) systems – Requirements, interfaces and applications</td>
<td>Under Development</td>
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<tr>
<td>ISO/IEC TR 29125 ED 2.0 IT</td>
<td>Telecommunications cabling requirements for remote powering of terminal equipment</td>
<td>Under Development</td>
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<tr>
<td>ISO/IEC TR 11801-99-03</td>
<td>Information technology – Generic cabling: Modelling of Channels and Links for Balanced Cabling</td>
<td>Approved for Publication</td>
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<tr>
<td>ISO/IEC 30129</td>
<td>Information technology - Application of equipotential bonding and earthing in buildings with information technology equipment</td>
<td>Approved for Publication</td>
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<td>ISO/IEC TR 11801-99-01</td>
<td>Information technology – Generic cabling for customer premises: Guidance for balanced cabling in support of at least 40 GBit/s data transmission: Parts 1 and 2</td>
<td>Published</td>
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<tr>
<td>ISO/IEC TR 29106 AMD 1</td>
<td>Information technology -- Generic cabling -- Introduction to the MICE environmental classification</td>
<td>Published</td>
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<tr>
<td>ISO/IEC 14763-3 Ed 2.0</td>
<td>Information technology -- Implementation and operation of customer premises cabling – Part 3: Testing of optical fibre cabling</td>
<td>Published</td>
</tr>
<tr>
<td>ISO/IEC 24764 Amd 1</td>
<td>Information technology – Generic cabling for data centres</td>
<td>Published</td>
</tr>
<tr>
<td>ISO/IEC 11801 AMD 1 AMD 2</td>
<td>Information technology – Generic cabling for customer premises</td>
<td>Published</td>
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<td>ISO/IEC 15018 AMD 1</td>
<td>Information technology – Generic cabling for homes</td>
<td>Published</td>
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<tr>
<td>ISO/IEC 24702 AMD 1</td>
<td>Information technology – Generic cabling – Industrial premises</td>
<td>Published</td>
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<td>ISO/IEC 14763-1 AMD 1</td>
<td>Information technology – Implementation and operation of customer premises cabling – Part 1: Administration</td>
<td>Published</td>
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<tr>
<td>ISO/IEC 14763-2</td>
<td>Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation</td>
<td>Published</td>
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<tr>
<td>ISO/IEC 14763-2-1</td>
<td>Information technology – Implementation and operation of customer premises cabling – Part 2-1: Planning and installation – Identifiers within administration systems</td>
<td>Published</td>
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<tr>
<td>ISO/IEC TR 24704</td>
<td>Information technology – Customer premises cabling for wireless access points</td>
<td>Published</td>
</tr>
<tr>
<td>ISO/IEC TR 24750</td>
<td>Information technology – Assessment and mitigation of installed balanced cabling channels in order to support 10GBASE-T</td>
<td>Published</td>
</tr>
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<td>ISO/IEC TR 29125 IT</td>
<td>Telecommunications cabling requirements for remote powering of terminal equipment</td>
<td>Published</td>
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**IEC SC 48B - Connectors**

**Most Recent Meeting:** March, 2019 in London, U.K.  
**Updated:** April, 2019

**IEC 61371 Series Standards:**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
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<tbody>
<tr>
<td>IEC 60603-7 am2 Ed 3.0</td>
<td>Connectors for Electrical and Electronic Equipment – Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current carrying capacity; General requirements and tests</td>
</tr>
<tr>
<td>IEC 63171-1 ED1</td>
<td>Connectors for Electrical and Electronic Components – Product Requirements – Part 1: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for TYPE 1 / Copper LC Style</td>
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<tr>
<td>IEC 63171-2 ED1</td>
<td>Connectors for electrical and electronic equipment – Part 2: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for type 2</td>
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<td>IEC 63171-3 ED1</td>
<td>Connectors for electronic equipment – Product requirements – Part 3: Detail specification for 2-way, shielded free and fixed connectors for data transmissions with frequencies up to 600 MHz and current carrying capacity</td>
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<tr>
<td>IEC 63171-4 ED1</td>
<td>Connectors for electrical and electronic equipment – Part 4: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for type 4</td>
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<tr>
<td>IEC 63171-5 ED1</td>
<td>Connectors for electronic equipment – Product requirements – Part x-y: Detail specification for circular connectors with up to 8 ways, screw-locking, free and fixed connectors for data transmission up to 2000MHz with current carrying capacity</td>
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<td>IEC 63171-6 ED1</td>
<td>Connectors for electrical and electronic components – Product requirements – Part 6: Connectors – Detail specification for 2-way and 4-way (data/power), shielded, free and fixed connectors for transmission capability and power supply capability with frequencies up to 600 MHz</td>
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**IEC 60603 Series Standards:**

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<tr>
<td>IEC 60603-7 ED4</td>
<td>Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors</td>
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</table>

**IEC 61076 Series Standards:**

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<th>Standard</th>
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<tr>
<td>IEC 61076-2-010 ED1</td>
<td>Connectors for electrical and electronic components – Product requirements – Part 2-010: Circular connectors – Detail specification for push pull connectors with outer locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113</td>
<td>Under Development</td>
</tr>
<tr>
<td>IEC 61076-2-012 ED1</td>
<td>Connectors for electrical and electronic equipment – Product Requirements – Part 2-012: Circular connectors – Detail specification for M12 inverse push-pull connectors for power and data transmission up to 500 MHz</td>
<td>Under Development</td>
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</table>
Connectors for electrical and electronic equipment – Product Requirements – Part 2-010: Circular connectors – Detail specification for push pull connectors with outer locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113


Connectors for electrical and electronic equipment – Product Requirements – Part 2-114: Circular connectors – Detail specification for connectors with M8 screw locking with power and signal contacts for data transmission with up to 100 MHz

Connectors for electronic equipment - Product requirements - Part 3-119: rectangular connectors - Detail specification for unshielded, free and fixed 10 way connectors with push-pull coupling for industrial environments with frequencies up to 100 MHz

Connectors for electrical and electronic equipment – Product requirements – Part 3-126: Rectangular connectors - Detail specification for 5 pole power connector for industrial environments with push-pull locking

Connectors for electrical and electronic equipment - Product requirements – Part 3-123: Rectangular connectors – Detail specification for hybrid connectors for industrial environments, for power supply and fibre optic data transmission, with push-pull locking

Connectors for electrical and electronic equipment – Product requirements – Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and Gigabit Ethernet applications in harsh environments

IEC 60512 Series Standards:

Connectors for electrical and electronic equipment - Tests and measurements – Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz on IEC 60603-7 series connectors – Tests 27a to 27g

Under Development
Connectors for electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz on IEC 60603-7 and IEC 61076-3 series connectors - Tests 28a to 28g

Under Development