

## Certified Complete Structured Cabling System Warranty

### Warranty Statement

PLEASE READ THIS LIMITED WARRANTY CAREFULLY TO UNDERSTAND YOUR RIGHTS AND OBLIGATIONS. THIS LIMITED WARRANTY CONTAINS A MANDATORY ARBITRATION CLAUSE WITH A CLASS ACTION WAIVER.

BY USING YOUR TITANIUM TECHNOLOGIES PRODUCT OR ACCESSORY, YOU AGREE TO THE LIMITED WARRANTY, INCLUDING THE MANDATORY ARBITRATION CLAUSE AND CLASS ACTION WAIVER BELOW.

Subject to the limitations and conditions set forth herein, Titanium Technologies (the “Company”) warrants to you (the “End-User”) that its category-rated structured cabling products listed in “Addendum A – Products” as updated from time to time including Titanium Technologies branded cables and Titanium Technologies branded connecting hardware (the “Products”) when installed together will:

1. Be free from defects in materials and workmanship;
2. Comply with ANSI/TIA 568 and ISO/IEC 11801 specifications in effect at the time of installation;
3. Work with any of the following standard category cabling applications:
  - a. Ethernet network traffic at the speeds allowed by ANSI/TIA 568 and ISO/IEC 11801 for the category of cable installed;
  - b. Video streaming up to the speed allowed by ANSI/TIA 568 and ISO/IEC 11801;
  - c. Power over Ethernet allowed by ANSI/TIA 568, IEEE 802.3 and ISO/IEC 11801 up to the current standards at the time of installation;
4. Work with any other cabling application specifically approved by Titanium Technologies at the time End-User (refer to Warranty Application and Registration below) which must be designated by Titanium Technologies at the time of warranty application and registration.

If the Products fail to perform as specified above, then as the sole and exclusive remedy Titanium Technologies will at its discretion either repair and/or replace the defective Products or will contract with a Titanium Technologies Certified Installer to complete this work, all in accordance with the terms and limitations of this Certified Complete Structured Cabling System Warranty.

### Warranty Program Durations

1. One (1) year standard repair or replace warranty from the date of purchase for any single defective item not included in a registered extended warranty (fifteen or twenty-five year) as defined below.
2. Fifteen (15) year warranty covering products, performance and application assurance for Category (Cat) 5e and Cat 6 cabling systems installed by Titanium Technologies Certified Installers (refer to Addendum C – Certified Installers) in a registered cabling system (refer to Warranty Application and Registration below) using Titanium Technologies connecting hardware and Titanium Technologies qualified cabling.
3. Twenty-five (25) year warranty covering products, performance and application assurance for Cat 6A and above cabling systems installed by Titanium Technologies Certified Installers (refer to Addendum C

– Certified Installers) in a registered cabling system (refer to Warranty Application and Registration below) using Titanium Technologies connecting hardware and Titanium Technologies qualified cabling.

End-User's Cat 5e, Cat 6 or Cat 6A and above cabling system installed by a Titanium Technologies Certified Installer(s) using Titanium Technologies Products is referred to in this warranty as a "System". System does not include active equipment, public network interface, non-Titanium Technologies equipment or terminal equipment.

The one-year warranty period begins on the date installation is complete. A fifteen or twenty-five-year warranty period begins only when Titanium Technologies issues a Warranty Certificate to End-User.

### Warranty Application and Registration Requirements

To obtain the fifteen year or twenty-five-year warranty, End-User must satisfy each of the following conditions:

1. Written notification of desire for the warranty (System Warranty Application) must be received Titanium Technologies by letter or email before installation is started.
2. Compliance with TIA and ISO standards that govern Commercial Building Telecommunication Systems during the design, installation, administration and maintenance of a system must be documented and provided to Titanium Technologies at its request if a problem occurs.
3. Installation must be performed by a Titanium Technologies Certified Installer who is approved for the install and holds a current certification by Titanium Technologies at the time the install is performed.
4. Each registered cable link and/or channel must be 100% constructed of new Titanium Technologies connectivity hardware and new Titanium Technologies cable approved for the designated link and/or channel classification defined in the Commercial Building Telecommunication Systems Standards (ANSI/TIA 568). All components of an individual link and/or channel must be of the same Category level.
5. The End-User must comply with the terms and conditions set forth in this warranty and Titanium Technologies' Warranty Guide.
6. Each link and/or channel must have an identification number assigned to it on the drawings and physically attached to the link and/or channel, this identification number should comply with ANSI/TIA-606 labeling standards.
7. An associated valid copy of a certified passing test report must be submitted for each link and/or channel at the time of the issuance of the warranty.
8. All certification and warranty documentation must be submitted to Titanium Technologies within 30 days of the completion of the installation.
9. Completion of Titanium Technologies' "System Warranty Registration" must accompany the link and/or channel certification reports and design specifications noted in numbers 2, 4, 5, and 7 above.
10. Titanium Technologies reserves the right to inspect and test any or all links and/or channels before issuing the Warranty Certificate.

A System that does not conform to all of the above conditions is not warranted regardless if a Warranty Certificate is issued for it by Titanium Technologies.

## Warranty Claims Procedure

Within fifteen business days of the End-User discovering a problem with the system, the End-User must notify the Titanium Technologies Certified Installer and provide free access to the System to allow the Titanium Technologies Certified Installer to identify the problem.

After identification of the problem, and within 30 business days of the End-User discovering the problem, the Titanium Technologies Certified Installer must notify Titanium Technologies if there is a potential claim pursuant to this Warranty.

The End-User must ensure that all documentation relating to the System design, installation, testing, administration and maintenance is made available to Titanium Technologies on request.

System repair and replacement due to component or cable failure will be performed pursuant to this Warranty only after Titanium Technologies has reviewed and verified the System prior to the removal, replacement or repair of any defective System components.

## Warranty Exclusions

This Warranty does not cover:

1. The installation, maintenance of other portions of the End-User's System that was not submitted in the original application;
2. Components not specifically designated by Titanium Technologies as being eligible for this Warranty;
3. Titanium Technologies components not supplied directly by Titanium Technologies or through channels approved by Titanium Technologies;
4. Defects resulting from a non-compliant or improper System design, installation, use, repair, or any system alterations, misuse, neglect, accident or abuse;
5. Defects resulting from moves, additions or changes performed by parties other than the Titanium Technologies approved Titanium Technologies Certified Installer;
6. Deterioration due to normal wear and tear or aging or damage caused by outside natural occurrences, such as lightning, fire, floods, acts of nature, or the like;
7. Damage caused by moisture, corrosion, power surges, electro-magnetic interference (EMI) or radio frequency interference (RFI) shall not constitute a defect in materials or workmanship;
8. Installation or maintenance of the system or products not specifically designated for use under the terms of this agreement; or
9. Links and/or channels that are comprised of one or more counterfeit components or components that have been changed after the original certification testing.

## Warranty Limitations

TO THE EXTENT PERMITTED BY LAW, AND SUBJECT TO ITEMS BELOW, THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS, IMPLIED OR STATUTORY AND THE REMEDIES PROVIDED FOR IN THE PRECEDING PARAGRAPHS CONSTITUTE THE SOLE RECOURSE OF THE END-USER AGAINST TITANIUM TECHNOLOGIES AND TITANIUM TECHNOLOGIES' AUTHORIZED DISTRIBUTORS/DEALERS FOR BREACH OF ANY OBLIGATIONS TO THE END-USER WHETHER THE CLAIM IS MADE IN TORT OR IN CONTRACT, INCLUDING CLAIMS BASED ON WARRANTY, NEGLIGENCE, STRICT LIABILITY, FRAUD, MISREPRESENTATION, OR ANY OTHER LEGAL THEORY WHATSOEVER. TITANIUM TECHNOLOGIES LIMITS THE

DURATION AND REMEDIES OF ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS TO THE DURATION OF THIS LIMITED WARRANTY.

TO THE EXTENT PERMITTED BY LAW, THERE ARE NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATED WARRANTY. TO THE FULL EXTENT PERMITTED BY LAW, IN NO CASE SHALL TITANIUM TECHNOLOGIES BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL, INCIDENTAL, DIRECT, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OR LOSSES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF DATA, LOSS OF ELECTRONICALLY STORED INFORMATION (ESI), LOSS OF PRIVACY, LOST PROFITS OR COMMERCIAL LOSS, BUSINESS INTERRUPTION AND LOSS OF CONFIDENTIALITY, ARISING OUT OF OR RELATING IN ANY WAY TO THE PRODUCT AND/OR BREACH OF THIS OR ANY OTHER WARRANTY OR CONDITION, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY TITANIUM TECHNOLOGIES' OWN NEGLIGENCE OR FAULT AND EVEN IF TITANIUM TECHNOLOGIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES. NOTWITHSTANDING THE FOREGOING AND EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE, THE ENTIRE LIABILITY OF TITANIUM TECHNOLOGIES UNDER ANY PROVISION OF THIS LIMITED WARRANTY SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY THE END-USER FOR THE PRODUCT.

WITHOUT LIMITING THE "WARRANTY EXCLUSIONS" ABOVE, IN NO EVENT SHALL TITANIUM TECHNOLOGIES OR ITS APPROVED DISTRIBUTORS OR CERTIFIED INSTALLERS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT OR IN TORT, INCLUDING NEGLIGENCE), INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR ECONOMIC DAMAGE ARISING OUT OF THE FAILURE OF THE SYSTEM. THE LIABILITY OF TITANIUM TECHNOLOGIES AND ITS APPROVED DISTRIBUTORS IN RESPECT OF ANY CLAIM OR DAMAGE ARISING OUT OF OR CONNECTED WITH THIS WARRANTY OR THE MANUFACTURE, SALE, DELIVERY, INSTALLATION OR USE OF THE SYSTEM WILL NOT EXCEED THE TOTAL OF THE PURCHASE PRICE OF THE SYSTEM AND THE INSTALLATION COSTS. CONSEQUENTLY, TITANIUM TECHNOLOGIES SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING.

If Titanium Technologies breaches any condition or warranty implied in favor of the End-User, by any other applicable law which cannot lawfully be excluded, then to the extent permitted by applicable law the liability of Titanium Technologies to the End-User is limited to:

1. The replacement of the goods or the supply of equivalent goods;
2. The repair of the goods;
3. The payment of the cost of replacing the goods or of acquiring equivalent goods; or
4. The payment of the cost of having the goods repaired, at the election of Titanium Technologies.

#### [Jurisdiction and Choice of Law](#)

This Warranty will be governed by, subject to, and interpreted according to the laws of the State of Michigan without regard to its conflict of law rules. Parties agree to be subject to the personal jurisdiction of the Circuit Court of Oakland County, Michigan, which shall be the exclusive venue for any judicial proceeding relating to

enforcement of any arbitration award or any request for injunctive relief pending arbitration, except that judgment on an arbitration award may be entered in any court having jurisdiction thereof.

#### [Arbitration of Disputes](#)

Any controversy or claim between the End-User, on the one hand, and the Company, on the other hand, in any way arising out of, related to, or connected with this Warranty be resolved exclusively by arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules, and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. In the event of such arbitration, unless otherwise required by law, the Titanium Technologies and the End-User will each pay one-half of the costs and expenses of such arbitration and each will separately pay their respective counsel fees and expenses. Notwithstanding any provision in this section, neither party will be prohibited from seeking injunctive relief as necessary to maintain the status quo pending an arbitration proceeding regarding the breach or threatened breach of any confidentiality obligations owed to the other party.

#### [No Class Arbitrations, Class Actions or Representative Action; Waiver](#)

The End-User and Titanium Technologies agree that any dispute arising out of or related to this Limited Warranty, is personal to the End-User and Titanium Technologies and that such dispute will be resolved solely through individual arbitration and will not be brought as a class arbitration, class action, or any other type of representative proceeding. The End-User and Titanium Technologies agree that there will be no class arbitration or arbitration in which an individual attempt to resolve a dispute as a representative of another individual or group of individuals. Further, the End-User and Titanium Technologies agree that a dispute cannot be brought as a class or other type of representative action, whether within or outside of arbitration, or on behalf of any other individual or group of individuals.

## Addendum A – Products

**Products include only Titanium Technologies-branded products.** This list of products is a representation of the products that Titanium Technologies carries. The part numbers and availability may change. There may be minimum quantities required for special orders.

### Part number code translation

“cc” = color codes           AL (almond), BK (black), BL (blue), GR (green), GY (gray), IV (ivory), OR (orange),  
PK (pink), RE (red), PU (purple), WH (white), YL (yellow)

“n” = number of ports       1, 2, 3, 4, 6, 12, 24, 48, 96

### Qualified Cabling

CAT5E-cc-1000R	Cat 5e (Class D) U/UTP CMR (Riser) rated 1000ft bulk cable (pull box)
CAT5E-cc-1000P	Cat 5e (Class D) U/UTP CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT6-cc-1000R	Cat 6 (Class E) U/UTP CMR (Riser) rated 1000ft bulk cable (pull box)
CAT6-cc-1000P	Cat 6 (Class E) U/UTP CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT6A-cc-1000R	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) U/UTP CMR (Riser) rated 1000ft bulk cable (pull box)
CAT6A-cc-1000P	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) U/UTP CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT6AFU-cc-1000R	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) F/UTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT6AFU-cc-1000P	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) F/UTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT6ASF-cc-1000R	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) S/FTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT6ASF-cc-1000P	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) S/FTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT7FU-cc-1000R	Cat 7 (Class F) F/UTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT7FU-cc-1000P	Cat 7 (Class F) F/UTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT7SF-cc-1000R	Cat 7 (Class F) S/FTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT7SF-cc-1000P	Cat 7 (Class F) S/FTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT7AFU-cc-1000R	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) F/UTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT7AFU-cc-1000P	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) F/UTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)
CAT7ASF-cc-1000R	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) S/FTP Shielded CMR (Riser) rated 1000ft bulk cable (pull box)
CAT7ASF-cc-1000P	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) S/FTP Shielded CMP (Plenum) rated 1000ft bulk cable (pull box)

### Connecting Hardware

#### Patch Panels

C5EPP-n	Cat 5e (Class D) Patch Panel
C6PP-n	Cat 6 (Class E) Patch Panel
C6APP-n	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) Patch Panel
C6ASPP-n	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) Shielded Patch Panel
C7SPP-n	Cat 7 (Class F <sub>A</sub> ) Shielded Patch Panel
C7ASPP-n	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) Shielded Patch Panel
KJPP-n	Keystone Jack Patch Panel†
KJSPP-n	Keystone Jack Shielded Patch Panel†

†must use one of the jacks in the “Keystone Jack” list

#### Keystone Jacks‡

C5E-KJ-cc	Cat 5e (Class D) Jack
C6-KJ-cc	Cat 6 (Class E) Jack
C6A-KJ-cc	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) Jack
C6AS-KJ-cc	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) Shielded Jack
C7S-KJ-cc	Cat 7 (Class F) Shielded Jack
C7AS-KJ-cc	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) Shielded Jack
C81S-KJ-cc	Cat 8-Type 1 (Class I) Shielded Jack
C82S-KJ-cc	Cat 8-Type 2 (Class II) Shielded Jack

‡May be 180-degree or 90-degree jacks

### Accessories

FP-cc-n	Face Plates
SMB-cc-n	Surface Mount Boxes

## Addendum B – Products covered by the one-year or other special warranty

### Part number code translation

“cc” = color codes           AL (almond), BK (black), BL (blue), GR (green), GY (gray), IV (ivory), OR (orange),  
PK (pink), RE (red), PU (purple), WH (white), YL (yellow)  
“f” = cable length in feet   0.5, 1, 2, 3, 4, 5, 6, 7, 10, 14, 15, 20, 25, 50, 100

### Patch Cables

Because of the mobility and changeability of the patch cable based on length needed, and that they will have to be replaced based on moving of computers and other connected equipment, the patch cables are covered by a limited lifetime warranty that does not fall under the extended system warranty.

It is suggested that the following patch cables be used for best results:

PC5-cc-f	Cat 5e (Class D) UTP Patch Cable
PC6-cc-f	Cat 6 (Class E) UTP Patch Cable
PC6F-cc-f	Cat 6 (Class E) F/UTP Patch Cable
PC6A-cc-f	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) UTP Patch Cable
PC6AS-cc-f	Cat 6 <sub>A</sub> (Class E <sub>A</sub> ) S/FTP Patch Cable
PC7S-cc-f	Cat 7 (Class F) S/FTP Patch Cable
PC7AS-cc-f	Cat 7 <sub>A</sub> (Class F <sub>A</sub> ) S/FTP Patch Cable

### Wire Management Products

WM-SS-1U	Single Sided 1 Rack Unit Plastic Finger Style Wire Management
WM-SS-2U	Single Sided 2 Rack Unit Plastic Finger Style Wire Management
WM-DS-1U	Double Sided 1 Rack Unit Plastic Finger Style Wire Management
WM-DS-2U	Double Sided 2 Rack Unit Plastic Finger Style Wire Management
WM-BR-1U	Brush Filled Pass Through 1 Rack Unit Flat Wire Management

For more Wire Management Products please see the Wire Management section of our catalog.

### Wall Mount Boxes

Wall Mount Box heights vary from 6 to 27 Rack Units (12 to 52 inches), widths vary from 21 to 24 inches, and depths vary from 18 to 24 inches. Door styles vary in look, shape, and material.

TY.WDUU.FR.C00           TY = Type, W = Width, D = Depth, UU = Rack Units, F = Front Door Style,  
R = Rear Door Style, C = color

### Server and Equipment Cabinets or Racks

Cabinet heights vary from 15 to 47 Rack Units (31 to 88 inches), widths vary from 24 to 32 inches and depths vary from 24 to 47 inches. Door styles vary in look shape and material.

Rack heights vary from 29 to 47 Rack Units (56 to 88 inches, width is 24 inches, dept is 24 inches).

TY.WDUU.FR.C00           TY = Type, W = Width, D = Depth, UU = Rack Units, F = Front Door Style,  
R = Rear Door Style, C = color

## Addendum C – Titanium Technologies Certified Installers

Titanium Technologies Certified Installers are those installers that have been designated in writing by Titanium Technologies as Titanium Technologies Certified Installers.

Titanium Technologies Certified Installers agree that Titanium Technologies has the right to review the Certified Installer's procedures and documentation at any time.