



Leviton Limited 25-Year System Warranty Document

Version 30

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1 INTRODUCTION

This warranty applies to a Leviton cabling system purchased from a Leviton Authorised Reseller, and installed and tested by a Leviton Network Integrator in accordance with Leviton instructions. It is offered by Leviton to the owner of the Leviton cabling system.

Only a Leviton Network Integrator who has completed all required professional training recognised by Leviton can offer the Leviton Limited 25-Year System Warranty. Leviton training certification must be less than two years old. SmartPatch, Blolite, and MicroBlo warranties can only be given by integrators who have received training specific to these products.

2 DEFINITIONS

'Authorised Reseller'	A company that has been approved to supply Leviton solutions.
'Brand-Rex'	Leviton; formerly Brand-Rex, a Leviton Company Limited, Viewfield Industrial Estate, Glenrothes, Fife, KY6 2RS, Scotland, or its associated regional/international offices.
'CAT6Plus, GigaPlus, 10GPlus, Atlas-X1, Extreme SmartPatch, Blolite/MicroBlo, Voice, FibrePlus, Hi-Dex, e2XHD, HDX, SDX, UHDX'	The brand names of sets of copper and optical cables and components supplied by Leviton as part of the Leviton Network Solutions Cabling System.
'Channel'	A cabling system described in the ISO 11801 standard.
'Leviton agreement'	A set of trading terms and conditions between Leviton, their distributors, and Leviton Network Integrators serviced through the distributors.
'Leviton cabling system'	A brand name of a set of cabling components supplied by Leviton.
'Leviton Network Integrator'	A company that has signed up for, and adheres to the conditions of, the Leviton Certification Program.
'Permanent link'	A cabling system as described in the ISO 11801 standard.
'The Standards'	Unless more specifically defined, the latest versions of ISO 11801, EN 50173, EN 50174, EIA/TIA/ 568C, and IEC 61935.

3 TERMS AND CONDITIONS

- 3.1 This warranty supersedes and replaces all warranties formerly available from Brand-Rex Limited or Leviton, taking effect from any previous warranty's date of issue.
- 3.2 The warranty terms and conditions contained herein should be read in conjunction with the standard Leviton terms and conditions of sale. A copy of the standard terms and conditions of sale is available upon request.
- 3.3 The standard terms and conditions of sale of Leviton will prevail unless modified within this warranty document.
- 3.4 Each year, Leviton will, at its discretion, audit a percentage of new installations (re-testing all, or a percentage of, the installation) to ensure quality and compliance to standards and Leviton installation guidelines.

4 WARRANTY PROCEDURE

- 4.1 Within 28 days of installation by the Leviton Network Integrator, the cabling system must be 100% tested according to the requirements found in the Leviton document, 'Guide to Testing and Submitting Test Results.'
- 4.2 Within 56 days of system installation, the integrator shall submit a warranty application via the online Warranty Portal available through the Leviton website. The test results, along with floor plans showing all data outlets represented in the results, must be uploaded by the integrator via the Warranty Portal at the time of application. Test results must follow the format described in the 'Guide to Testing and Submitting Test Results'. Leviton reserves the right to reject applications submitted in an incorrect format or with incorrect data/results. In the case of a project completed over an extended period (in phases), results should be submitted at the end of each phase. The whole project will be recorded using the same warranty number with several extensions as the project is completed.
- 4.3 All tests must be performed using appropriate test instruments and software maintained, calibrated, and operated according to the manufacturer's instructions. A list of approved instruments is available upon request.
- 4.4 If requested by the owner or intended owner of the cabling system, Leviton will conduct an audit during installation to ensure compliance with standards and Leviton guidelines; an additional non-intrusive audit up to 1,000 days after completion of installation may also be performed. This service is chargeable at the prevailing Leviton technical consultancy daily rate, plus all travel and accommodation expenses unless otherwise agreed, in writing, in advance.
- 4.5 Upon successful submission of the test results and review by Leviton, a Leviton Limited 25-Year System Warranty Certificate will be issued by Leviton appertaining to the installation.
- 4.6 For Class D and E systems, the copper cable system must be 100% tested as a permanent link (as defined in ISO 11801: latest edition) according to the test requirements of TIA 568C, EN50346, or IEC 61935 with a Level III (or better) cable tester. Leviton will guarantee channel performance when Leviton patch cords are added to the permanent link with no requirement for further testing.
- 4.7 ISO/IEC Class EA (10GBASE-T) system must be tested as a permanent link with a Level IV (or better) tester, in accordance with the Leviton 'Guide to Testing and Submitting Test Results.' Leviton will guarantee channel performance when Leviton patch cords are added to the permanent link with no requirement for further testing.
- 4.8 Only patch cords manufactured or supplied by Leviton can be used in a channel installation submitted for a Leviton Limited 25-Year System Warranty.

WARNING:

The installation of non-Leviton copper Class D (Cat 5), Class E (Cat 6), or Class EA (AC6) patch cords or work area cables within an installation may seriously compromise the ability of the installed network to support high-speed network applications such as Gigabit or 10 Gigabit Ethernet; any such installation will invalidate the warranty.

- 4.9 Leviton pre-terminated copper solutions are provided fully tested; however, for warranty purposes, a 100% re-test after installation is mandatory for warranty acceptance.
- 4.10 Leviton pre-terminated traditional, MPO, and MTP optical systems are provided fully tested; however, for warranty purposes, all fibre must be 100% tested on each fibre link for attenuation as described in the Leviton 'Guide to Testing and Submitting Test Results.'

5 WARRANTY PERIOD

5.1 Passive Cable Products

The warranty period starts on the date of issue on the warranty certificate and covers a period of 25 years thereafter. This includes the Class D, Class E, Class EA and optical performance of SmartPatch panels (but not the electronic products; e.g., scanners or software).

5.2 Electronic products

SmartPatch — The warranty period starts on the date of issue on the warranty certificate and ends 18 months thereafter. The warranty includes SmartPatch scanners, control modules, and active sections of the SmartPatch panels.

5.3 Software

Leviton products that have been satisfactorily installed, configured, commissioned, and tested according to the relevant Leviton agreement, installation manual, and testing guide are warranted to operate in accordance with specification for 60 days from date of shipment on the software license.

6 WARRANTY COVERAGE

6.1 Performance

The Leviton cabling system is guaranteed to meet the channel electrical (or optical, as appropriate) performance defined in the Standards at the time of installation for 25 years from the date of the warranty certificate. The relevant Standards are:

- TIA-EIA-568
- ISO/IEC 11801
- EN 50173

6.2 Applications

For the 25-year warranty period of the Leviton cabling system:

- Any application requiring Class C performance is guaranteed to operate adequately over voice products.
- Any application requiring Class D performance is guaranteed to operate adequately over GigaPlus or SmartPatch Cat 5.
- Any application requiring Class E performance is guaranteed to operate adequately over Cat6Plus, eXtreme®, Atlas-X1™ or SmartPatch Cat 6.
- An application requiring Class E_A performance is guaranteed to operate adequately over 10GPlus, eXtreme, or Atlas-X1 products.
- Any application requiring channel performance classes OF300, OF500, or OF2000 is guaranteed to operate adequately using the appropriate optical fibre type (OM1, OM2, OM3, OM4, OS1 or OS2) using FibrePlus, Blolite, MicroBLo, UHDX, HDX, e2XHD, SDX, Hi-Dex or SmartPatch fibre products.

6.3 Full Cost of Replacement

Defective materials supplied by Leviton under the terms of this warranty will be repaired or replaced, at Leviton's discretion, by either the original contractor/Integrator or one of Leviton's choosing. Reasonable costs of reinstatement will be met by Leviton.

6.4 Application Support

A complete list of supported applications is included in Appendix 1.

6.5 Extended Distance

Although the Standards define maximum channel lengths, in specific instances longer-distance operation is possible when using Leviton cabling systems. Contact Leviton prior to exceeding channel lengths during the cable installation. Leviton will identify the affected links with the warranty certificate.

6.6 EMC/EMI

An IT network is compliant with the EMC Directive when the active equipment complies with the requirements of EN 50081, EN 50082, EN 55022, and EN 55024, and the cabling system is designed, installed, and maintained to the requirements of EN 50173 and EN 50174. Leviton cabling products and installation and maintenance programmes comply with the Standards. Compliance of the IT network with the EMC directive is assured when the active equipment used on the network is compliant with the EMC/EMI Standards.

6.7 Transfer of Warranty

The owner of the warranted cabling system may transfer the remaining lifetime of the warranty to a new owner upon written request to Leviton. However, it is recommended that a system audit be completed to ensure Standards compliance has been maintained during the change of ownership.

6.8 Five and Six Connector Models

The Standards define a horizontal copper cabling channel that contains no more than four connection points. Cat6Plus may be used with five or six connectors, and will still achieve an overall Class E channel performance when all other Class E/Cat 6 design rules and other Leviton instructions are observed.

For guidance on Class EA/Cat 6A horizontal copper cabling channel configurations, please contact Leviton Technical Support.

7 WARRANTY LIMITATIONS

- 7.1 A Leviton Network Integrator must install and test the cabling system, and provide the defined test data and documentation for the project.
- 7.2 All products must be exclusively Leviton products. Product substitution may only be made with written permission from Leviton prior to installation. Substituted products are not warranted by Leviton. Approved alternative products must have a concession number, valid only for one specific project, obtained from Leviton prior to installation. The concession number must be recorded on the warranty application form.
- 7.3 All cabling systems must be designed and tested according to the relevant national or international Standard and the Leviton 'Guide to Testing and Submitting Test Results.' The installation must follow Leviton recommended installation methods, and the products must be used within the environmental limits defined in the appropriate product data sheet. Other rules and instructions may be published by Leviton from time to time.
- 7.4 All installed products must be brand-new and purchased from Leviton or from an Authorised Reseller.
- 7.5 Any product moved, re-terminated, or modified in any way must be re-tested and resubmitted for warranty validation.
- 7.6 All products must be used within the electrical and environmental limits for which they were designed throughout their working life.
- 7.7 Any form of accidental or malicious damage to the cabling system is outside the scope of the warranty.
- 7.8 Any unauthorised tampering or modification of the cabling system will invalidate the warranty.
- 7.9 Connectors have a guaranteed number of mating cycles. Performance is not guaranteed beyond the number of cycles detailed in the relevant product data sheets or relevant Standards. Warranty coverage period limits and environmental limits may also be placed upon optical connectors containing index-matching gels and other products.
- 7.10 Leviton will not accept any warranty claim where damage has been caused by insertion of incorrect plugs into an RJ45 module.

- 7.11 Leviton will not accept any warranty claim where damage to the product has been caused by exposure to fire, smoke, water, paint, chemicals, or other elements or operating conditions outside of the product's stated ratings or intended use.
- 7.12 Leviton accepts no liability for consequential damages arising from the performance, late delivery, or non-delivery of any Leviton product or service.
- 7.13 There is only one warranty period and one warranty certificate per site. Any products added to, or installed at, the same site after the initial installation can be included in the same warranty period (starting from the date on the original warranty certificate); however, the products must be installed and tested by a Leviton Network Integrator, with appropriate test data and documentation forwarded to Leviton. The additional links will be added to the original warranty providing they are tested in the same manner and submitted as an addition to the warranty through the online Warranty Portal. Additional projects at the same site may be added as an addendum to the 'master' number, dated from the time of installation.
- 7.14 The warranty does not cover issues related to products or labour made impracticable by any cause beyond the reasonable control of Leviton Network Solutions including, without limitation, acts or omissions of customer, acts of God or government, natural disasters or storms, fire, political strife, labour disputes, failure or delay of transportation, or unavailability of parts or personnel.

8 TERRITORY

- 8.1 The world-wide Leviton Limited 25-Year System Warranty is only available through Leviton Network Integrators installing Leviton products within their agreed territories of operation.

9 ACTIONS IN THE EVENT OF A CLAIM

- 9.1 In the event of a claim against the warranty, the owner or user of the cabling system must inform the original integrator, in writing, within 28 days of the occurrence of the fault. If the original integrator is no longer available, the claim should be directed to the Leviton distributor or the nearest Leviton office.
- 9.2 The integrator or Leviton will inspect the installation and decide if the problem was caused by the product or the installation method. If the latter is determined to be the cause, then the integrator is responsible for rectifying the issue. If the integrator believes the problem was caused by the product, they must inform Leviton, in writing, within 14 days.

Leviton will dispatch an engineer to the site to assess the problem and recommend appropriate actions. If, in the opinion of the Leviton engineer, the Leviton products are not at fault, a fee will be chargeable at the prevailing Leviton technical consultancy daily rate, plus all travel and accommodation expenses.

10 OBLIGATIONS OF OTHER PARTIES

- 10.1 Nothing in this agreement shall entitle any other party to use any Leviton logo, trade name, livery, or trademark.
- 10.2 This agreement is the full extent of the warranty and its remedies, and no other party may offer any extension beyond the terms defined herein.
- 10.3 The integrator and owner of the cabling system must expedite access, by Leviton personnel, to any site involved in a warranty claim.

APPENDIX 1

METALLIC CABLE APPLICATIONS

Supported data systems protocols include (but are not limited to):

ATM	af-phy-0162.000	155 and 1,200 Mb/s
Ethernet	IEEE 802.3 10BASE-T	10 Mb/s
Ethernet	IEEE 802.3 100BASE-T4	100 Mb/s
Ethernet	IEEE 802.3 100BASE-T2	100 Mb/s
Ethernet	IEEE 802.3 100BASE-TX	100 Mb/s
ISO Ethernet	IEEE 802.9a	16 Mb/s
Ethernet	100BaseVG-ANYLAN	100 Mb/s
Gigabit Ethernet	IEEE 802.3ab 1000BASE-T	1,000 Mb/s
10 Gigabit Ethernet*	IEEE 802.3an 10GBASE-T	10,000 Mb/s
Token Ring	IEEE 802.5	4, 16, 100 Mb/s
TP-PMD	ANSI X3T9.5	100 Mb/s
ISDN	CCITT I.430	64 Kb/s, 2 Mb/s

* Using 10GPlus products

The following protocols can be connected via a suitably-wired D-type to RJ45 connector:

EIA-232-D	CCITT V24, V28	19.2 Kb/s
EIA-422-A	CCITT V11	100 Kb/s

The following networks can be connected to, and are supported on, the cabling system when connected via the appropriate balun:

LAN	Original Cable Media
IBM 3270	93 ohm RG 62 coax
IBM AS400	105 ohm twinax
IBM token ring	150 ohm two pair
Wang VS OIS	75 ohm twinax
Ethernet 10BASE-2	50 ohm thinnet coax RG58
Reuters	75 ohm RGB triple coax

The following video systems are supported when used with the correct balun:

Baseband video
RGB video
Broadband video
Financial information services (e.g. Reuters, Bloomberg, Telerate)

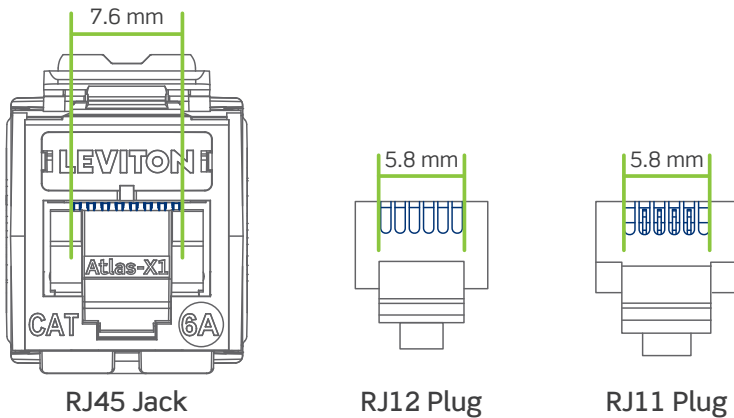
Many other balanced applications, not directly related to video or data, can also be supported on Leviton systems, including analogue voice telephony, TTL and building control systems incorporating fire control and detection, access control, PoE and PoE+. Separate application notes are available for balun interconnection.

APPENDIX 2

RJ45, RJ11, AND RJ12 INTEROPERABILITY

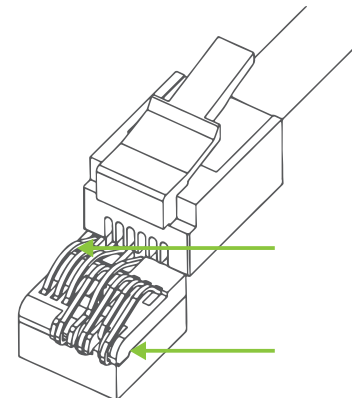
WARNING: RJ45, RJ11, and RJ12 are not compatible with Gigaplus, Cat6Plus, or 10GPlus components.

As detailed in IEC (60)603-7, RJ45 is an 8-position (8 pin) modular module/socket. RJ11 and RJ12 plugs are 6 or 4 pin, as shown in the diagram below.



A connector, such as an RJ11 or RJ12, can fit inside the RJ45 module. However, the jacks are of different dimensions and are not designed to be inserted in an RJ45 module. Over time, this insertion will cause permanent damage to the RJ45 module. Inserting an incorrect plug into the RJ45 module will reduce the performance of the channel, and will not support any extended distances stipulated by Leviton in its warranty document.

Leviton will not accept any warranty claim in which damage was caused by the insertion of incorrect plugs into an RJ45 module.



- END -

UPDATES AND AMENDMENTS

Version	Date	Description
15	28-04-05	Update for 10GBASE-T
16	16-01-06	Addition of SmartPower products and 10GBASE-T testing update
17	10-5-06	Amendment of patch cord and 10GBASE-T requirements
18	20-10-06	Addition of voice product
19	03-07-09	Update to 10GBASE-T testing requirement and amendment to Standards references
20	30-09-10	Amendment to Clause 8.2
21	12-12-11	Layout update
22	04-03-14	Addition of pre-terminated and MicroBlo products
23	13-08-14	Layout update
24	01-07-15	Addition of Section 6.10 and Appendix 4; amendment of RJ45, RJ11, and RJ12 interoperability
25	04-10-16	Addition of fibre application table
26	02-11-17	Layout update
27	31-1-18	Brand update from Brand-Rex to Leviton
28	23-04-18	Layout update
29	01-06-18	Layout update
30	03-09-18	Layout update