

NextLAN[®]
LEVITON[®] SUPERIOR ESSEX[®]

NextLAN 10G^C AXi CAT 6A COPPER CABLING SYSTEM



LEVITON

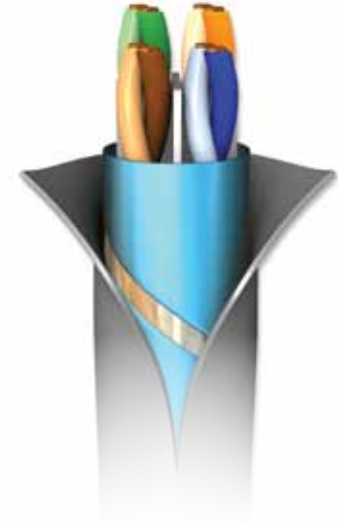
**SUPERIOR
ESSEX**

NextLANsystems.com

NextLAN 10G^C AXi COPPER CABLING SYSTEM

NextLAN 10G^C AXi is the first copper UTP cabling system to guarantee 4 dB of Alien Crosstalk margin over TIA 568.2-10. The breakthrough in Alien Crosstalk Isolation (AXi) is the result of significant advancements in engineering, materials, and design applied to a new generation of connector and cable components. Performance is so good that we guarantee the installed system will meet Alien Crosstalk requirements without any field testing.

The 10G^C AXi cable uses a revolutionary non-conductive Isolation Wrap from Superior Essex that blocks Alien Crosstalk signals – almost as effectively as a solid metallic shield – only without the inconvenience of grounding or bonding. 10G^C AXi connectivity uses Leviton’s new flexible circuit technology and a metallized Cone of Silence to effectively eliminate Alien Crosstalk. Combined, these technologies result in the highest performing 10G copper system on the market.



NextLAN 10G^C AXi SYSTEM BENEFITS

- 4 dB margin for Alien Crosstalk guaranteed: field testing not required
- Small 0.30 inch cable outer diameter for improved space utilization
- Guaranteed to exceed all TIA-568-B.2-10 link and channel, IEEE 10G BASE-T (802.3an), and ISO/IEC 11801 Class Ea Draft 2.2 requirements
- Guaranteed to meet all CAT 6A requirements for short links and channels, down to a 10 foot link
- Uses standard UTP connectors and installation methods
- Lifetime warranty on certified installations
- Fully complies with UL 444 and NEC for an unshielded cabling network

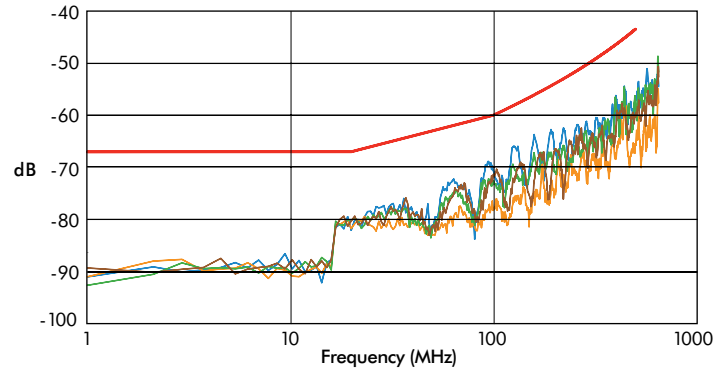
NextLAN 10G^C AXi Channel Margin Guarantee¹

	Margin vs. TIA/EIA 568-B.2-10	Margin vs. ISO/IEC 11801 Edition 2.1
INSERTION LOSS	3%	3%
NEXT	1 dB	0 dB
ACR ²	3 dB	2 dB
PSNEXT	2 dB	1 dB
PS-ACR ²	4 dB	3 dB
ACRF	5 dB	5 dB
PSACRF	6 dB	6 dB
RL	3 dB	2 dB
PSANEXT	4 dB	4 dB
PSAACRF	4 dB	4 dB

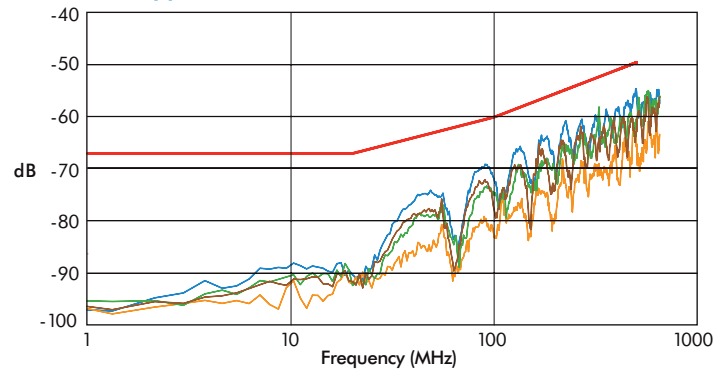
¹ Guaranteed channel margin to 500 MHz frequency range; performance tested to 650 MHz

² 10G^C ACR and PSACR margin guarantee is minimum performance margin vs. calculated minimum defined by TIA 568-B.2-10 from 1 to 500 MHz

Typical PSANEXT, Short Channel³



Typical PSANEXT, 100 Meter Channel³



³ Intertek test reports #3175389CRT-001a and #3175389CRT-001b available upon request

Worst case test results for Power Sum Alien Near End Crosstalk (PSANEXT) performance in a 4-connector, 100 meter channel and a 2-connector, 30 foot channel per TIA/EIA-568-B.2-10 CAT 6A standard



Superior Essex is one of the largest manufacturers of communications cable products in the world, and a market leader in datacom copper and fiber optic cables. With more than 50 years of experience in telecommunications cable design and production, Superior Essex has built a reputation for delivering products that lead the market in terms of technology and quality. From Outside Plant (OSP) to in-building LANs, Superior Essex cables carry the voice and data traffic for the largest telecommunications service providers in the world as well as many of the leading enterprises throughout North America. Visit SuperiorEssex.com to learn more about Superior Essex.

Superior Essex 10Gain® XP CAT 6A Cable

- Utilizes non-conductive Isolation Wrap with discontinuous metallized sections to suppress Alien Crosstalk and provide guaranteed margin
- Requires no grounding or bonding at termination
- 100% perfectly round design is optimal for installation flexibility
- Nominal diameter of 0.30 inches
- UL tested for plenum (NFPA 262) and riser (UL 1666) environments



Leviton eXtreme® CAT 6A Quickport® Connectors

- Patent-pending triple-stage compensation design with integrated flexible circuit enhances link and channel performance
- Patented Retention Force Technology® (RFT) reinforces time performance
- Alien Crosstalk suppressed by Patented Cone of Silence, metallized body and new circuit board
- Pair Separation Tower (PST) design facilitates separation of CAT 6A conductors
- Patent-pending dual-layer wiring label simplifies termination and reduces rework
- Conductor retention feature holds conductor in place during termination
- Cable entry can be 90° or 180° to fit any application
- Snap-in installation to Leviton's broad range of Quickport® patch panels, faceplates or surface mount boxes



Leviton eXtreme® CAT 6A Patch Panels

- Inline IDC field is consistent with existing 110-style panel designs
- Patent-pending triple-stage compensation design with integrated flexible circuit enhances link and channel performance
- Pair Separation Tower (PST) design facilitates separation of CAT 6A conductors
- Patent-pending Isolation Gap on circuit board minimizes alien crosstalk between ports
- Conductor retention feature keeps cable pairs in place during termination
- Terminates up to 50% faster than 110-panels requiring additional termination manager



Leviton eXtreme® CAT 6A Patch Cords

- SlimLine design provides easy access for use in higher density applications
- Snagless design provides ease of use during MAC work
- Strain relief boot ensures long-term network performance
- Stranded 26 AWG construction provides longer flex-life
- FTP construction provides excellent Alien Crosstalk mitigation



All products shown have been independently tested to exceed all TIA-568-B.2-10 component requirements.

Leviton Network Solutions, a division of Leviton Manufacturing Company, Inc., specializes in the design, development and production of advanced copper and fiber telecommunications solutions for enterprise, industrial, data center and service provider environments. Whether you're looking for CAT 6 connectors for the office, CAT 6A for the campus, or fiber for the data center, Leviton has the solution. Leviton has been at the forefront of technology for over 100 years, always building upon the unwavering principals of quality, service and innovation. With constant research, superior engineering and Six-Sigma, ISO 9001-2000 controlled manufacturing, Leviton is proud to be an industry leader.

LEVITON

LIFETIME WARRANTY

NextLAN system performance guarantees are backed by a lifetime warranty on certified horizontal and backbone systems with:

- A single point of contact
- Comprehensive coverage

Installed verification of permanent link performance provides automatic full channel warranty (when Leviton patch cords are used).

Visit NextLANsystems.com for more information.

TESTING/CERTIFICATION

NextLAN systems are installed and thoroughly tested by highly trained technicians who have been certified by Leviton and Superior Essex.

NextLAN 10G ^c AXi Ordering Information		
DESCRIPTION	PART NO.	PACKAGING
Superior Essex 10Gain [®] XP CAT 6A - CMR rated	6H-272-zA	1,000 ft. Reel
Superior Essex 10Gain [®] XP CAT 6A - CMP rated	6H-272-zB	1,000 ft. Reel
Leviton eXtreme [®] CAT 6A QuickPort Connector, component rated	6A10G-R†6	-
Leviton eXtreme [®] CAT 6A 110-Style Patch Panel, 1RU, 24-Port	6A586-U24	-
Leviton eXtreme [®] CAT 6A 110-Style Patch Panel, 2RU, 48-Port	6A586-U48	-
Leviton eXtreme [®] CAT 6A 110-Style Patch Panel, Angled, 1RU, 24-Port	6A587-U24	-
Leviton eXtreme [®] CAT 6A 110-Style Patch Panel, Angled, 2RU, 48-Port	6A587-U48	-
Leviton eXtreme [®] QuickPort Patch Panel, 1RU, 24-Port, empty	49255-H24	-
Leviton eXtreme [®] QuickPort Patch Panel, 2RU, 48-Port, empty	49255-H48	-
Leviton eXtreme [®] QuickPort Patch Panel, 2RU, 72-Port, empty	49255-D72	-
Leviton eXtreme [®] QuickPort Patch Panel, 1RU, 48-Port, jacks included	6910G-D48	-
Leviton eXtreme [®] CAT 6A SlimLine Patch Cord, 26 AWG, stranded conductor	6AS10-xx*	-

z = Jacket color: Blue (2), Gray (3), White (4), Green (5), Yellow (6), Red (9)

† = Connector color: White (W), Light Almond (T), Almond (A), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (V), Grey (G), Black (E), Brown (B)

xx = Patch Cord length: (03), (05), (07), (10), (15), or (20) feet

* = Patch Cord color: White (W), Yellow (Y), Red (R), Blue (L), Green (G), Grey (S), Black (E)

A variety of QuickPort Patch Panels including Zero-U, Recessed, Angled, Recessed-Angled, and Flat configurations accept eXtreme 6A connectors to offer a vast selection of solutions. See Leviton's Patch Panel Selection Guide for a complete list of Patch Panels.



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