

DATA CENTER NETWORK INFRASTRUCTURE

Cable and Connectivity for the Most Demanding Networks



Customer-focused, technology-driven, quality-assured
for an unparalleled **RETURN ON**
infrastructure investment

DATA CENTER EXPERTISE

Berk-Tek Leviton Technologies supports all data center systems and solutions with an extensive network of strategic account managers, specification engineers, and data center specialists. Our experts are always available to provide design topology, layout, elevation, and pathway support.

QUALITY-ENGINEERED SOLUTIONS

Our high-bandwidth fiber and copper systems provide guaranteed performance through tested, hyper-tuned technologies. We manufacture products in U.S.-based, ISO-certified facilities, and our systems are verified by independent testing organizations.

ENDURING COMMITMENT TO CUSTOMERS

We back data center installations with responsive technical service and personalized field support. Contractors enrolled in Berk-Tek and Leviton certification programs are trained in the latest techniques and products, and can offer a limited-lifetime system warranty.

INDUSTRY-LEADING INNOVATIONS

Berk-Tek Leviton Technologies manufactures cable and connectivity that can be deployed rapidly and support migration to 10 GbE, 25 GbE, 40 GbE, and 100 GbE networks. And we can work with you to create unique, customized products for your data center's specific architecture and equipment.

PROVEN HISTORY IN DATA CENTERS

Berk-Tek Leviton Technologies systems support customers from every major market. We have experience with all types of installations, including telecom providers, Fortune 100 e-commerce companies, universities, and high-security government installations.



ACTIVE PARTICIPATION IN STANDARDS BODIES

Our product experts and engineers are active members in standards organizations like IEEE and TIA — the groups that define next generation fiber optic and copper networks. These innovators have developed the cable and connectivity that provide the best migration paths to 10 GbE, 25 GbE, 40 GbE, 100 GbE, and beyond.

ADVANCED RESEARCH AND DEVELOPMENT

The TEK Center, located at Berk-Tek headquarters, explores the characteristics that influence data center network performance, such as airflow, temperature, and extended distances. Through advanced testing, design, and analysis, the TEK Center develops more robust network operations and system components that exceed expectations for performance and reliability while reducing cost of ownership. Berk-Tek can configure the demo area according to customers' interests and show how different network infrastructures will work for them.



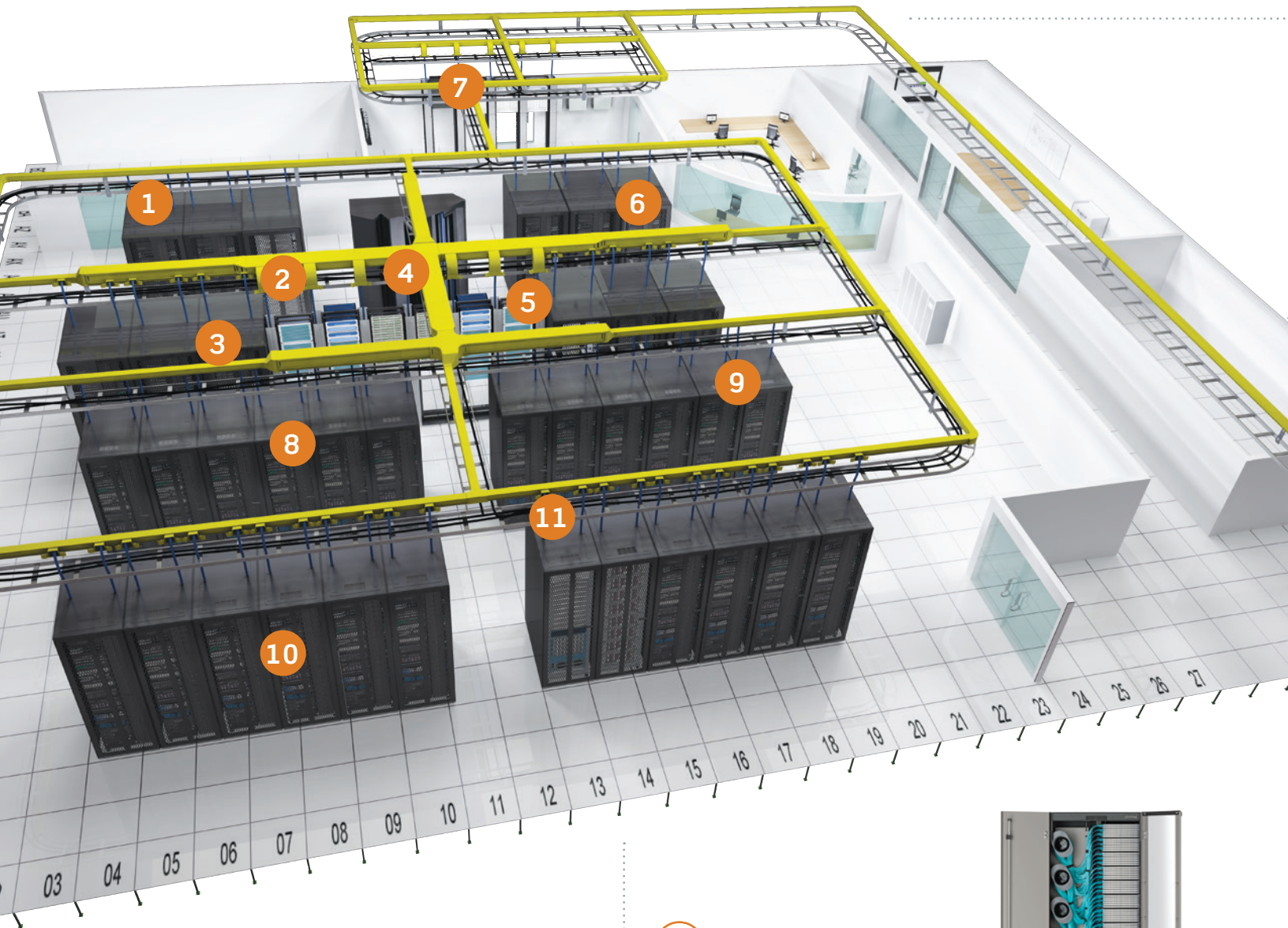
ALLIANCES WITH ACTIVE GEAR VENDORS

Berk-Tek and Leviton work closely with the biggest names in networking technology to create scalable, high-density data center networks. When combined with the latest data center switches from Arista, Brocade, Cisco, and Extreme Networks, our cabling systems give you extra design flexibility for your equipment architecture.



INNOVATIVE DATA CENTER SOLUTIONS

Berk-Tek Leviton Technologies solutions cover every area of the data center — from the entrance room and computer room to the telecommunications room (TR) and support offices. Our data center experts can work with you to find the products that best fit your needs.



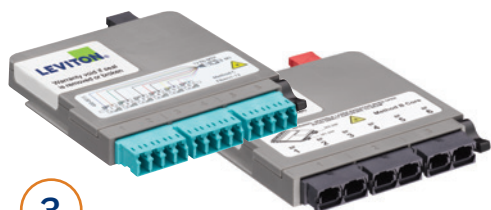
1
E2XHD Snap-In Cassette Patching System
Fast deployment and simple maintenance

2

HDF3168 Distribution System

Used in MDA to consolidate patching and reduce footprint, freeing up valuable space.





3

40/100G MTP® Systems

Ideal migration path to 40/100 GbE speeds.

4

Intact™ Intelligent Port Management System

Real-time network documentation with alerts for faults or unplanned changes.



5

Cable Management

Vertical, horizontal, and overhead cable management for standard equipment racks and large-scale deployments.



6

Secure Connectivity

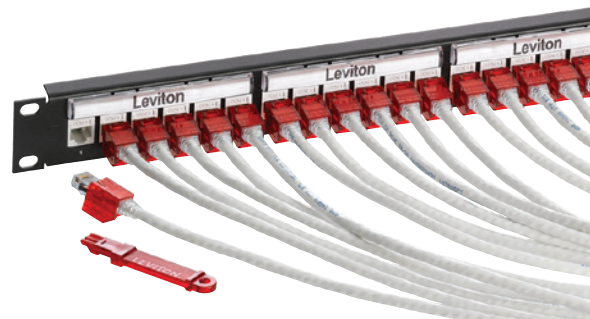
Physical port security with copper RJ and fiber LC assemblies.



7

Cable

Extensive selection of innovative fiber optic and copper cable to support high-density connectivity needs.



8

CX6850 Cat 6A Premium+ UTP System

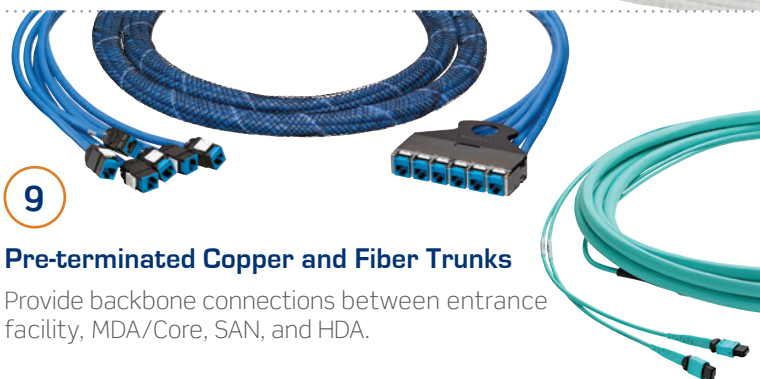
Highest performing, robust Cat 6A system for mission-critical networks. Shielded Cat 6A is also available for added signal isolation.



9

Pre-terminated Copper and Fiber Trunks

Provide backbone connections between entrance facility, MDA/Core, SAN, and HDA.



10

Fiber Optic Systems, Enclosures, and Accessories

High-density enclosures can be custom configured with cassettes, adapter plates, and pre-terminated solutions. Systems can deliver an unprecedented 300-meter link length for 40 GbE connections with GIGALite™-10XB fiber.



11

Power Distribution Units

Provide reliable power distribution into racks and cabinets with outlet power ranging from 2.0 kW to 12.5 kW.



The Industry's Best Performing, Small-Diameter Cat 6A System

Berk-Tek Leviton Technologies offers some of the highest performing category-rated systems in the industry, including our best-in-class Cat 6A Premium+ UTP System with LANmark™-XTP cable for 10 GbE networks. This component-rated system features patented crosstalk prevention technology and industry-leading channel margin guarantees, making it ideal for mission-critical applications.

CX6850 Cat 6A Premium+ UTP System

- Berk-Tek LANmark™-XTP cable offers superior electrical performance, AXT suppression, and EMI resistance without requiring grounding or bonding
- Atlas-X1™ connector is independently tested to exceed performance standards and allows for tool-free terminations
- Leviton e2XHD patch panels and snap-in cassettes allow for fast, tool-free installation and changes
- LANmark-XTP cable offers small 0.275" outside diameter increasing pathway capacity and improving airflow to active equipment



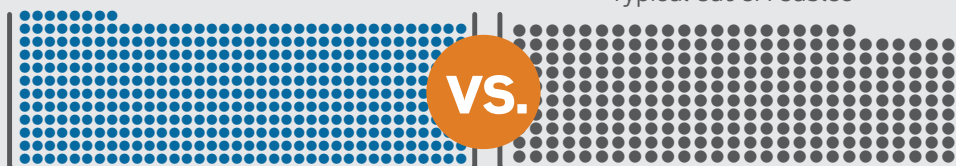
XTP Cable Diameter Comparison - 4" x 12" Tray Capacity

404

LANmark-XTP Cat 6A Cables

318

Typical Cat 6A Cables



CS6700 and CS6100 Shielded Systems

Cat 6A and Cat 6 shielded systems provide additional EMI/RFI protection and AXT suppression. They are ideal for environments where signal interference or security may be a concern.

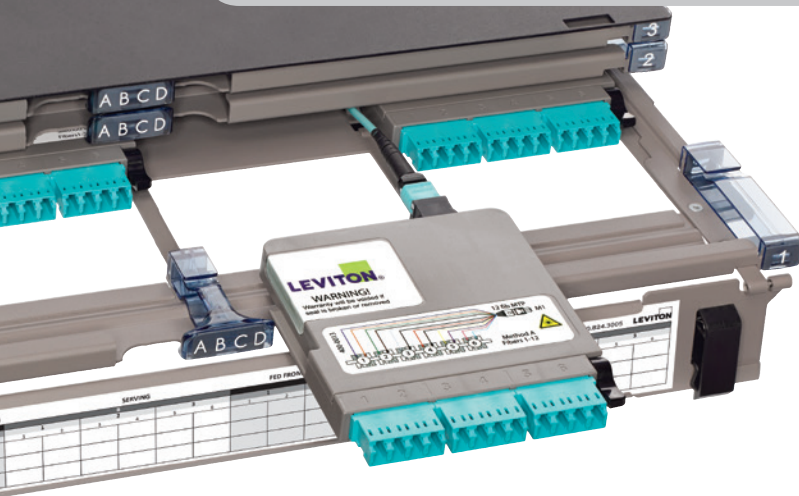


CX6300 Cat 6 UTP System

Cat 6 UTP systems deliver additional performance margins beyond industry standards and meet requirements for mission-critical networks running at 1 GbE speeds.

The Highest Density Fiber Optic Connectivity and Cable Available

Berk-Tek Leviton Technologies delivers the best high-density fiber optic systems for 10 GbE, 40 GbE, and 100 GbE networks. The Opt-X UHD Fiber Enclosure System, along with the patented Micro Data Center Plenum (MDP) Cable, reduces pathway fill and creates dramatically higher patching density in racks and cabinets. That means more space for expansion and future growth.



Opt-X® UHD Enclosures and MDP Cable

- Enclosures accept compact HDX cassettes and adapter plates with LC, SC, or MTP® connectors
- Enclosures offer up to 144-fibers per RU with LC connectors or 1,728 fibers with MTP connectors
- Delivers 40 GbE at 300-meter link distances when using MDP cable with OM4+ GIGAlite™-10XB fiber
- Combined with MTP connectors, Berk-Tek MDP cable provides the highest-density backbone connectivity available for data centers and SAN installations

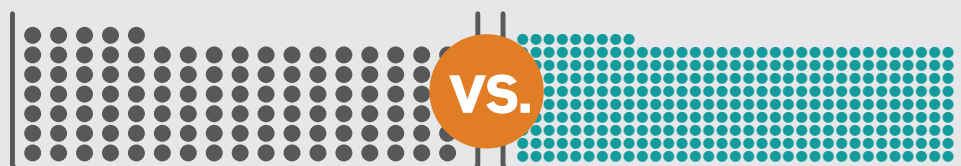
MDP Cable Diameter Comparison - 4" x 12" Tray Capacity

107

Typical 96-Fiber Cables

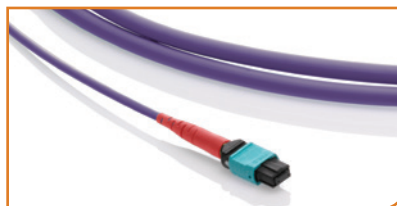
306

MDP 96-Fiber Cables



OM4+

Differentiate OM4+ channels from aqua OM3/OM4 with violet cable and connectivity. Cables containing Berk-Tek OM4+ GIGAlite-10XB fiber offer 300-meter link distances for 40/100 GbE. This performance margin also supports greater numbers of connector pairs for increased design flexibility.



HDF3168 Distribution System

Consolidate more than 3,000 LC fibers into a patching frame that takes up only one data center floor tile.

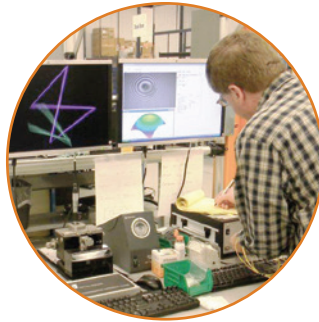


With ISO-certified facilities in every part of the country dedicated to manufacturing customer-specific solutions, Berk-Tek Leviton Technologies is able to build and ship products with some of the fastest turnaround times in the industry. **Contact us for a tour of a facility near you.**



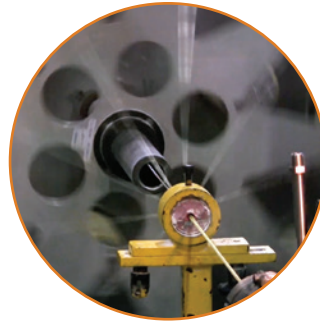
BOTHELL, WA

Copper connectors, patch panels, fiber enclosures, PDUs, and cable management



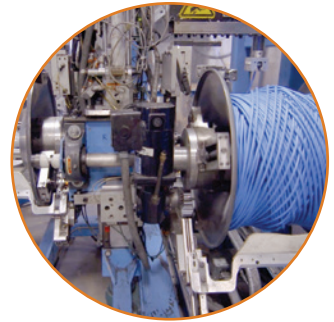
BLOOMINGDALE, IL

Copper and fiber cable assemblies, including patch cords, harnesses, and trunks



FUQUAY-VARINA, NC

Berk-Tek fiber optic cabling, including MDP, Armor-Tek, and Adventum cable



NEW HOLLAND, PA

State-of-the-art twisted-pair copper cabling, including LANmark™-XTP Cat 6A cable

Build your high-performance networks with Berk-Tek and Leviton, two of the most innovative, reliable, and service-oriented names in the industry. With the combined strength of Berk-Tek cable and Leviton connectivity you get the best end-to-end copper and fiber solutions available.

Berk-Tek has spent the last 50 years maximizing the capabilities of cabling systems. This focus has enabled the development of innovative cabling that addresses the particular needs of enterprise, campus, and data center networks, including high-speed transport, high-density installations, and rapid deployment.

The products offered by Berk-Tek lead the industry in performance, reliability, and robustness. Independent verification to product specifications, not just industry standards, offers customers an added level of certainty of the quality being delivered.

For the past quarter century, Leviton Network Solutions has engineered and manufactured copper and fiber optic connectivity products for enterprise, data center, government, education, health care, and residential markets around the globe.

Leviton manufactures nearly all of its branded products in company-owned, ISO 9001-2008 certified facilities located in the United States. All Leviton products are engineered to exacting standards, offer industry-leading performance and are backed by the industry's best service and support. That's what makes Leviton the smart choice for a better network.

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