Product Catalog

EVERYTHING IP

Berk-Tek®
A NEXANS COMPANY

www.berktek.com

Catalog Quick Tips

www.berktek.us/catalog

Access to Berk-Tek product information has never been easier! Just follow these few easy steps:

1 On any web browser, visit **www.berktek.us/catalog**

2 **Bookmark** the website for easy access later. On most browsers, this is done by clicking a ★ next to the address bar. You can also bookmark the catalog to the home screen on your mobile device or tablet.

Navigate to the catalog in Safari on your iPhone or iPad. Tap on the share icon at the bottom of the screen and then select the **Add to Home Screen** button. A bookmark to the catalog will now be on your home screen similar to an app.

Navigate to the catalog in the default browser on your Android device. Tap the bookmark icon in the top right. An info box will appear asking you to name the bookmark and where to save it. Tap the dropdown list next to **Add to** and select **Home Screen**. This process is slightly different in other browsers

Navigate to the catalog in the browser on your Windows device. Tap on the menu button and select **Add to Home Screen**. The next window will prompt you to name the shortcut.

3 **Navigating the catalog**

On a computer browser, use your keyboard arrows or the arrows on the sides and top of the publication. You can also click and drag the corner of the page with your mouse.

On mobile devices, swipe left or right.

Additional Tools

Use the following icons in the toolbar to access useful tools:

Search: Use this button to find things quickly in the catalog

Save: Use this button to save a copy of the catalog to your desktop*

Share: You can share the catalog to an email or on social media

Pages: Use this button to view all pages as thumbnails

Zoom: Use this button to zoom in or out. You can also zoom by clicking anywhere on a page

Print: Use this button to print one or several pages of the catalog

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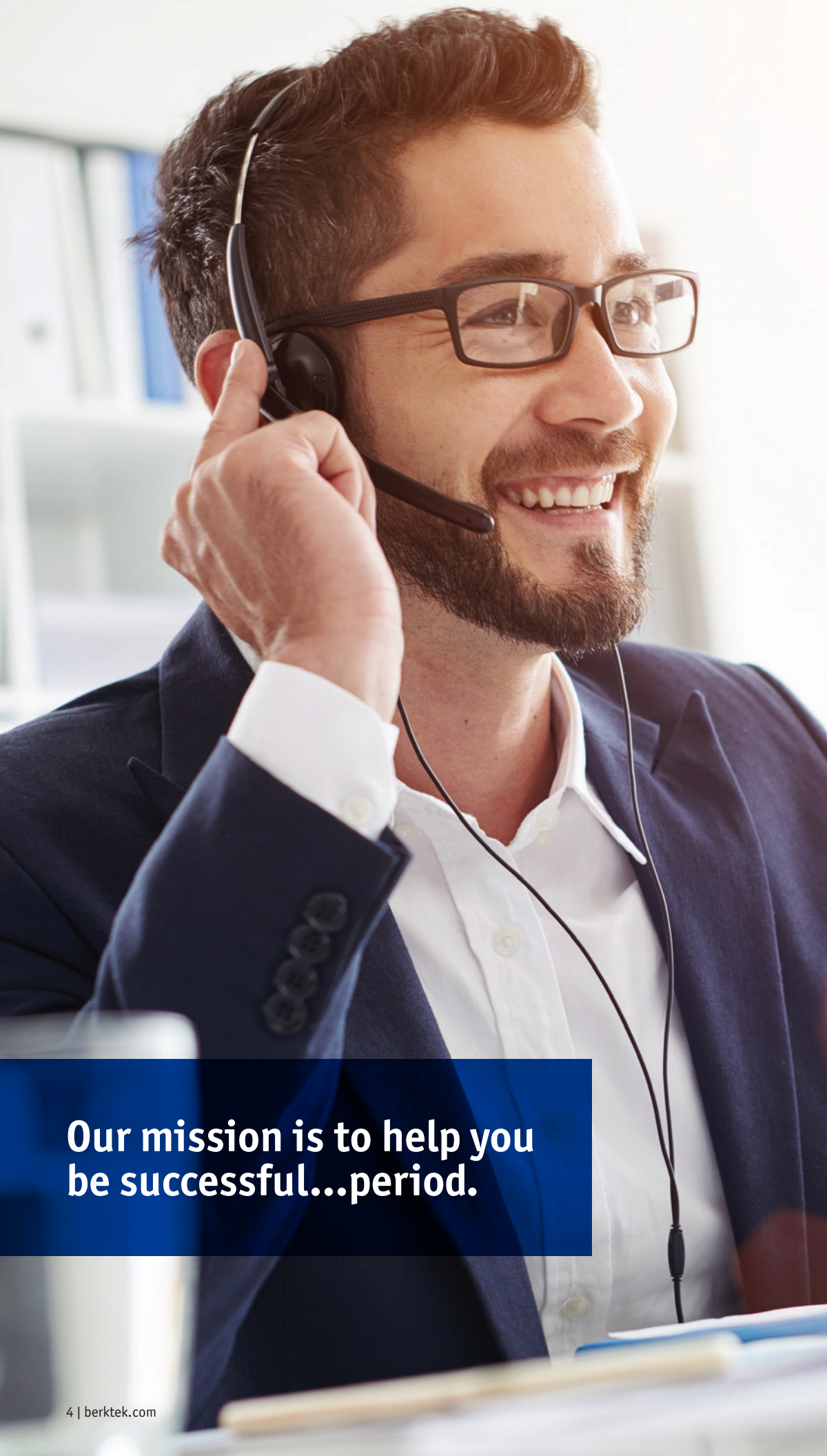
About Berk-Tek

Berk-Tek is the premier source for network infrastructure solutions. For more than 50 years, we have led the industry in the development of high-performance fiber optic and copper cables designed to transport high-speed data, voice and power transmissions. Our world-class research and development teams are dedicated to developing innovative structured cabling solutions that are critically important to managing the demands of today's emerging technologies. Our mission is to provide our customers with the solutions that meet both their current and future network needs, while continuously striving to maximize their return on investment.


Our mission is to help you
be successful...period.

Technology Leadership is Our Standard

Berk-Tek has long been a recognized leader in the development, study and testing of network infrastructure technologies.

THE TEK CENTER AT BERK-TEK

The TEK Center, located in New Holland, PA, is a Data Center and Enterprise Showcase, as well as a world-class research and development laboratory staffed with highly-trained engineers dedicated to developing innovative structured cabling solutions.

UNMATCHED CUSTOMER SUPPORT

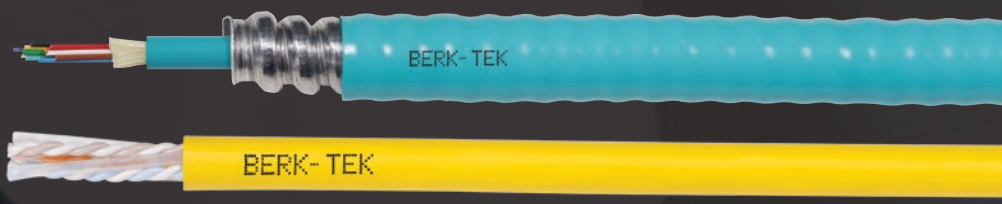
Our expert team of engineers, product managers and sales professionals provides unparalleled technical support and service.

GLOBAL R&D NETWORK

Working with Berk-Tek gives you access to the resources of the entire Nexans global organization, which means access to the collective expertise and reach of an organization focused on leading the development of innovative cabling technology worldwide.

GUIDING THE STANDARDS

Berk-Tek actively participates in multiple industry standards initiatives. Our engineers help guide the standards that govern our industry, supporting the initiatives that best serve our customers.



Protect your network traffic from noise and heat in the real world with performance-leading cables. Only from Berk-Tek.

Innovative Manufacturing Excellence

Performing to ISO 9001 certification standards helps to drive continuous improvement, consistent quality and on-time delivery.

Berk-Tek's commitment to manufacturing excellence and leadership is driven and evidenced by our many continuous improvement programs, including an automated shop floor data acquisition system capable of tracking more than 100 different quality parameters and the cultivation of internal Six Sigma Quality Experts.

Berk-Tek is a proud US manufacturer committed to maintaining US jobs and meeting the needs of our domestic customers. But the story doesn't end there. When you work with Berk-Tek, you get the expertise and resources of Nexans, the global expert in cabling systems with a presence in 30 countries and 21,000 employees worldwide.

MADE IN THE USA

Performing to ISO 9001:2015 certification standards helps to drive continuous improvement, consistent quality and on-time delivery.

ISO 9001:2015
BUREAU VERITAS
Certification

Environmental and Health Product Declarations

EPDs and HPDs are third-party verified and registered documents that validate the life-cycle environmental and health impact of products. They also help customers reach sustainable building objectives and obtain points towards LEED certification.

Berk-Tek has published its environmental declarations through the PEP ecopassport® program, which is an industry-wide recognized non-profit program that provides declarations specifically for the electrical and electronics industries. PEPs are product-specific EPDs, so they are valued as one full product towards LEED credit achievement.

Berk-Tek's HPDs are developed with the Health Product Declaration® Open Standard to accurately disclose their content and health information in compliance with the LEED program. Use of Berk-Tek's copper cabling on a project can count up to two points toward LEED credits.

RoHS: All products in this catalog manufactured in our New Holland and Fuquay-Varina facilities meet the European Union's Restriction of Hazardous Substances (RoHS) requirements. They are also compliant with California's Proposition 59.

Additionally, Berk-Tek is continuously working to limit the impact of our manufacturing processes and product components on the environment. Waste reduction, reduced water consumption, and energy-efficient lighting are just a few examples of how Berk-Tek works to steward the environment.

Recycling: Wherever possible, we have transitioned from wooden reels to recyclable reels made from 100% recyclable materials, and instituted an internal recycling program for all office paper and cardboard.

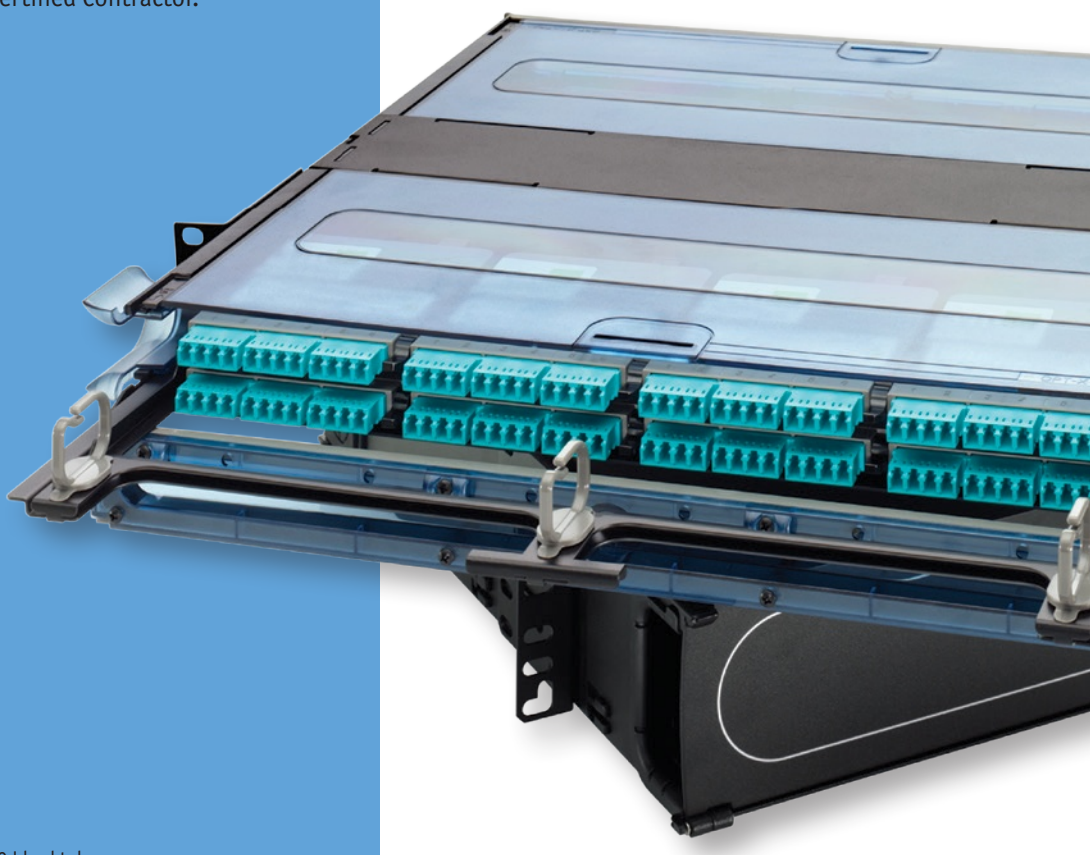
Raw Water: Berk-Tek uses a water reclamation system during manufacturing, preventing approximately 200,000 gallons of contaminated water from entering our local rivers and lakes.

Energy Efficient Lighting: These systems have reduced our total energy demand by 10%, reducing our carbon dioxide emissions by an amount equal to saving 367 acres of forest or removing 233 cars from the road each year.

We know that you have an obligation to your customers: to build the best-performing network infrastructure as cost-effectively as possible.

Choosing to install a Berk-Tek Leviton Technologies system means you are choosing the strongest LAN and data center solutions in the industry. This alliance between two of the best brands in network infrastructure delivers performance beyond the standards and a limited lifetime product and performance warranty on every system installed by an OASIS Certified Integrator or Leviton Certified Contractor.

Berk-Tek® LEVITON® TECHNOLOGIES



Build the Best Network with Berk-Tek Leviton Technologies

A complete portfolio of copper and fiber optic solutions, the Berk-Tek Leviton Technologies systems combine the premier cable and connectivity products of each technology expert to provide unparalleled quality and reliability. With numerous patents and industry-firsts, Berk-Tek and Leviton products deliver unique benefits designed to support the technology needs of today and tomorrow.

Custom and made-to-order configurations designed and manufactured in the United States mean some of the fastest turnaround times in the industry without sacrificing precise fit or product quality. Top all that off with integrated teams to provide design, specifying, troubleshooting and training to assist with whatever questions arise, and it becomes clear why those that want the best networks choose Berk-Tek Leviton Technologies.

Because two is better than one.

LEARN MORE


Welcome!
TEK

The TEK Center

The TEK Center at Berk-Tek is a world-class research and development facility, staffed with experienced engineers whose sole focus is to develop innovative structured cabling solutions. In addition to innovation and R&D, the TEK Center provides Berk-Tek customers with insight on how to solve network challenges by allowing you to experience the latest technology, learn about emerging applications and work with world-class research and development engineers on issues specific to your applications.


KNOWLEDGE · TECHNOLOGY · ENGINEERING ·
The
TEK
Center
Entrance / TR
Security Station

The TEK Center is Berk-Tek's World-Class R&D Facility

A PREMIER SHOWCASE FOR EMERGING APPLICATIONS

At Berk-Tek, our first priority is to help our customers maximize their success. We know that selecting the right network infrastructure is a critically important decision. And in this fast-changing industry, making the right decision now can pay big dividends later. That's why the TEK Center also functions as a showcase for emerging applications and unique network issues. Here, you can evaluate options firsthand and work with Berk-Tek engineers to spec a cost-effective system that will pay big dividends for years to come.

Data Centers: In the data center showcase, our TEK Center specialists can address your design challenges and recommend flexible, high-density solutions. You'll have the opportunity to touch, feel and experience different infrastructures and topologies. We can customize the display to help you determine which option best fits your needs. You'll also be able to see different migration paths and how to get the greatest density for your dollar.

Enterprise: The enterprise showcase includes examples of various environments including indoor, outdoor, security, office, campus and more. The demonstrations use Berk-Tek solutions in real-world applications to demonstrate where maximum performance for voice, data and power make a big difference in network performance. You'll be able to hear the difference in quality using VoIP and see the difference in video applications when utilizing different grades of cabling. And of course, we can customize the display to help you determine which option best fits your needs.

The TEK Center provides insight on how to solve your network challenges by allowing you to experience the latest technology, learn about emerging applications and witness world-class research and development.

Technology Expertise

LEADING-EDGE R&D

Over the years, Berk-Tek has originated some of the true breakthroughs in structured cabling. That work continues in the TEK Center every day, as do the innovations, that shape the future of our industry. Our R&D operations are divided into two core labs: the Applications Lab and the Materials Lab.

Applications Lab: We put our cables through rigorous testing of real world applications, in real world environments, to make sure they perform as designed.

Materials Lab: The Berk-Tek engineers in the Materials Lab formulate and develop innovative materials and processing techniques for Berk-Tek's high performing cables. Berk-Tek develops our own materials, ensuring that our solutions best protect your network traffic from the heat of PoE like only we can.

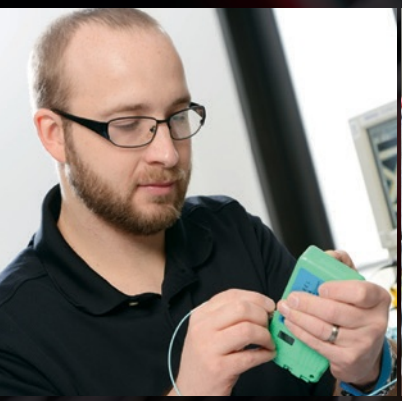
STANDARDS LEADERSHIP

We also have a Standards and Technology group that participates in various industry standard initiatives. They know the latest developments within the standards, and they are ready to help you as you plan your next project.

TEK SUPPORT

Our TEK Support gives Berk-Tek customers access to expert support services before, during and after installation. Our dedicated team of engineers and applications specialists takes hundreds of phone calls per month, responding to questions ranging from product specifications to installation practices to "future-proofing." We also provide onsite field support by Berk-Tek engineers, product managers and technical support experts — available to you to help maximize your success.

Contact us at 1-800-BERK-TEK or berktek.support@nexans.com.



The TEK Center provides insight on how to solve your network challenges by allowing you to experience the latest technology, learn about emerging applications and witness world-class research and development.

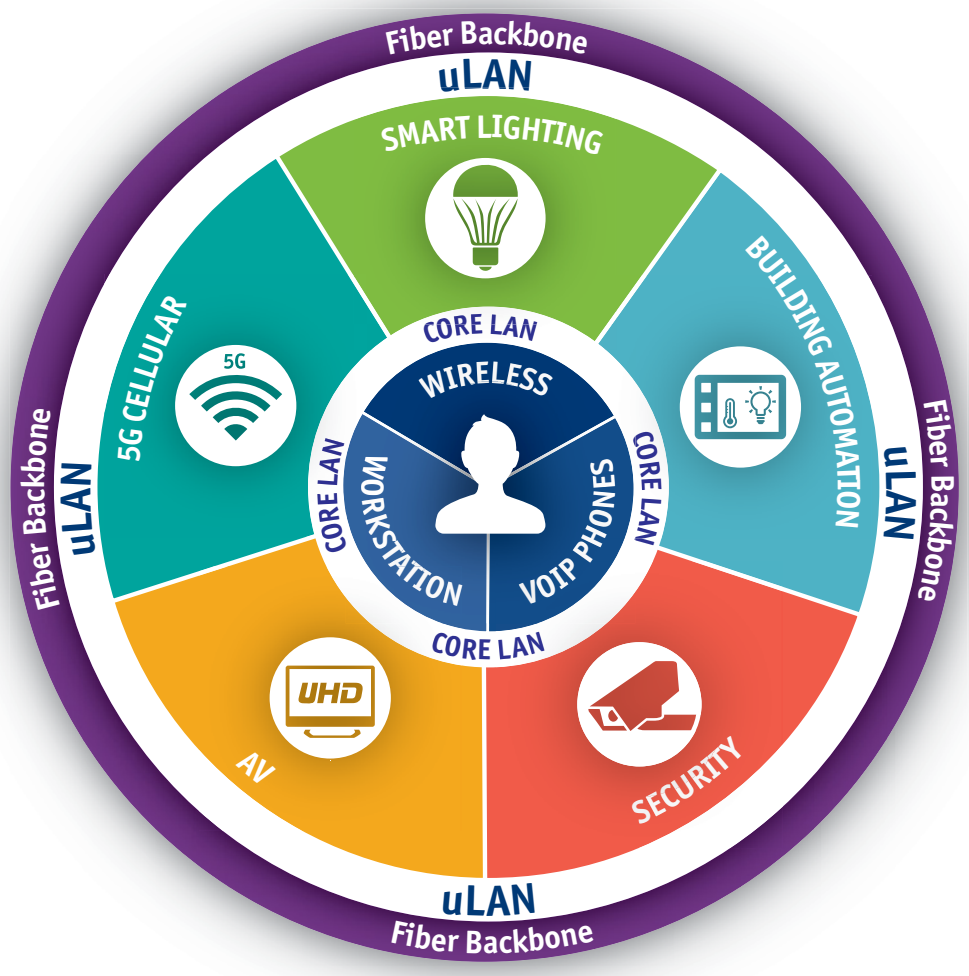
A SEAL OF EXCELLENCE: TEK CENTER CERTIFICATION

The TEK Center Certification is applied to technical documents, test reports, and other related materials that are developed in the TEK Center. Only after very extensive analysis and review by our highly trained and experienced engineers, can a deliverable earn the prestigious TEK Center Certification. It's a seal of excellence that you can rely on.

The Evolving Enterprise Network

The enterprise LAN is in the midst of an evolution. With an increasing reliance on wireless technologies and exploding bandwidth demand, the entire landscape of the enterprise network is changing and will continue to change quickly. Berk-Tek offers solutions that uniquely meet these challenges and ensure superior network performance both now and in the future.

Emergence of the uLAN



EVERYTHING IP

IP convergence is among us. Every day, more and more devices are being connected to and powered by the network. In the enterprise environment especially, organizations are seeing the benefits of converging once-disparate building systems onto their IP networks to fully leverage the efficiency and cost savings benefits of Everything IP.

THE EMERGENCE OF THE ULAN

When we think of the core Local Area Network (LAN), we think of devices that have traditionally been Ethernet-enabled – desktop computers, Voice-over-IP (VoIP) phones and wireless access points. But with increasing system convergence, we are now seeing the emergence of a Utility LAN (uLAN). Like the traditional LAN, the uLAN is an interconnected set of devices that share data within the enterprise. But the uLAN is comprised of non-traditional Ethernet-enabled devices – lighting, HVAC, security, and AV systems – that are now being connected and powered by the IP network.

uLAN Makes Good Business Sense

The uLAN enables you to integrate systems to reduce installation and maintenance costs, capture actionable analytics to further improve efficiency, and improve productivity and the overall user experience.

Actionable Analytics

The uLAN provides actionable analytics via sensor data and software to make solid informed business decisions, resulting in improved system performance, less down time, and reduced operational costs.

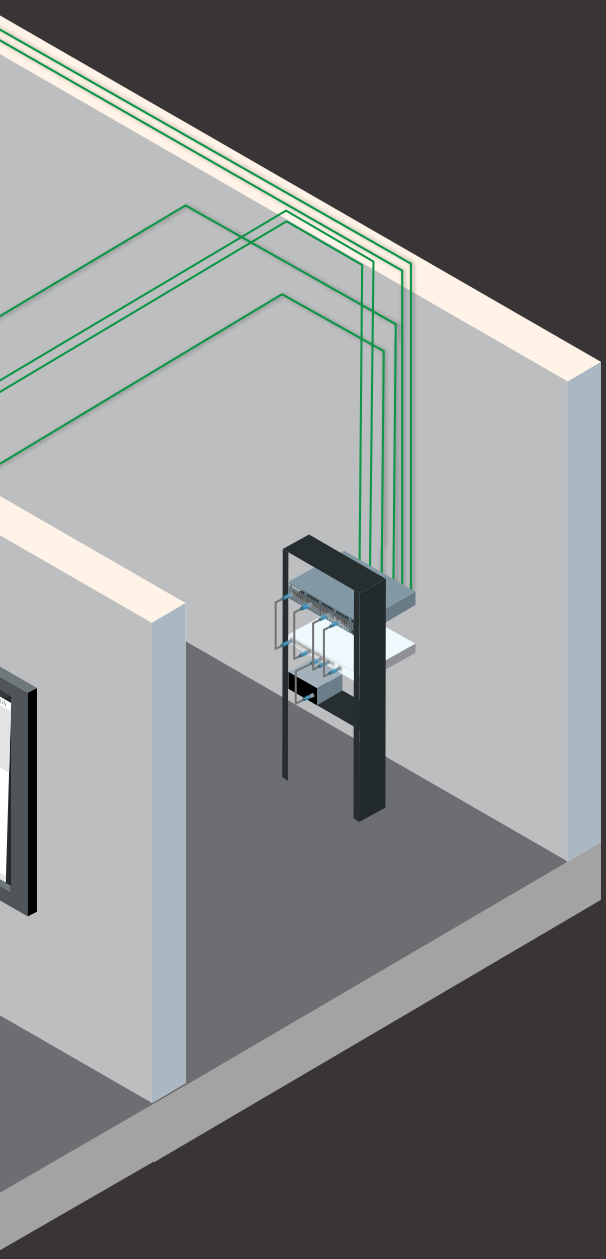
System Convergence

The uLAN serves as the communication channel for building automation systems to talk to each other via a common Ethernet language, without the need for human interaction. This enables centralized control from a single location, consolidation of support resources and improved overall system performance.

Improved Productivity

According to the 3-30-300℠ Real Estate Principle – a solid rule of thumb for estimating business costs – a company pays an average of $3/sq. ft. for energy costs, $30/sq. ft. for real estate, and $300/sq. ft. for salaries. Therefore, while energy savings are important, improvements to productivity where the savings are truly realized.

uLAN System Convergence



BUILDING AUTOMATION

Integrating your building automation system into the uLAN can further boost efficiencies and cost savings. Our solutions are designed to support next-generation devices needing high power and low bandwidth.

Recommended solutions:

- LANmark-IP (Page 60)
- LANmark-1000 (Page 50)

SECURITY

High-bandwidth convergence is changing the landscape of physical security systems. IP-connected solutions from Berk-Tek will ensure always-on performance, both inside and outside the building.

Recommended solutions:

- OneReach (Page 116)
- LANmark-1000 (Page 50)
- LANmark-6 (Page 54)

AV

Migrating AV to the IP network makes your systems more scalable, allows extended transmission distances, enables PoE, and eliminates the hassle and expense of installing a separate AV-only infrastructure. Berk-Tek solutions will help deliver superior performance for flawless image quality.

Recommended solutions

- LANmark-XTP (Page 36)
- LANmark-HD (Page 46)

SMART LIGHTING

Smart lighting systems are changing the way organizations operate. Berk-Tek cables are specially designed to protect data and minimize heat rise from PoE.

Recommended solutions:

- LANmark-IP (Page 60)
- LANmark-XTP (Page 36)

5G CELLULAR

5G technology promises a ten-fold increase in bandwidth capacity, close to error-free transmission, and low latency. Berk-Tek offers a wide range of hybrid cabling options to connect and power each 5G antenna with one ruggedized cable.

Contact your Berk-Tek representative for more information.

Your network can't perform optimally if your fiber backbone is weak.

A Network is Only as Strong as its Weakest Link

As buildings become more connected and more intelligent, the amount of data flowing through your network will continue to increase. Installing Cat 6A solves the bandwidth challenge in the horizontal. But what about the fiber backbone that needs to support all of those additional 10Gbps drops, as well as the additional bandwidth required for systems in the uLAN?

A logical solution is to move to a 40Gbps backbone. But most existing backbones were installed with OM3 fiber. When you run 40Gbps over OM3, your reach decreases to only 100m, per the IEEE standard. For nearly 80% of backbone applications connecting buildings in a campus environment, this just isn't far enough.

MULTIMODE VS. SINGLE-MODE OR BOTH?

Berk-Tek has a multimode fiber solution that can reach 300m at 40Gbps! The secret is in the fiber. The engineers at Berk-Tek developed a unique fiber specification that allows for double the distance over the standard. You don't have to move to a much more costly single-mode solution to get the extended reach and bandwidth you need in the fiber backbone. Single-mode cable is less expensive than multimode, but single-mode transceivers are about 2X the cost.

However, if moving to a single-mode solution is on the infrastructure roadmap, we can fully support that as well. Berk-Tek offers a hybrid cable solution that contains both multimode and single-mode fiber, so you can take advantage of a lower cost multimode solution now, and then move to a single-mode solution when you're ready for it.

RECOMMENDED SOLUTIONS

- GIGAlite™-10XB OM4+ optical fiber
- Multimode/Single-mode hybrid cable

GIGAlite
REDEFINE THE LIMITS

LEARN MORE

OASIS

Certified experts. Guaranteed results.

We Want to Make Your Work Easier and More Profitable

We know that you have an obligation to your customers to build the best-performing network infrastructure as cost-effectively as possible. That's why we offer a full selection of contractor support services and programs to make your work easier and more profitable.

The Berk-Tek OASIS program is designed specifically to address component compatibility and installation variables in the structured cabling system and deliver guaranteed total system performance. At its core, OASIS utilizes Berk-Tek's premier LANmark™ series of UTP cables and our premium GIGAlite™ fiber optic technology in concert with connectivity provided by the world's leading vendors. Carefully matched and qualified through extensive research and testing, every OASIS Solution provides guaranteed total channel performance and unmatched flexibility

OASIS CONNECTIVITY PARTNERS ARE CAREFULLY SELECTED AND QUALIFIED

All OASIS connectivity partners have been carefully selected and qualified, and every OASIS Solution has been extensively tested to verify consistent channel performance. Guaranteed.

OASIS: GUARANTEED TOTAL SYSTEM PERFORMANCE

Fully leveraging high-speed network applications in the enterprise requires a structured cabling system designed to meet current and emerging standards, end-to-end. The Berk-Tek OASIS program is powerful enough to deliver guaranteed performance, yet flexible enough to utilize your preference for connectivity.

SUCCESS BEGINS AND ENDS WITH YOU

For guaranteed system performance, high-quality network components are only part of the equation. Complete system performance and reliability also requires knowledgeable and skilled technicians to install and test the network according to industry standards. And that's where you come in.

Berk-Tek thoroughly reviews every application and then administers rigorous technician testing to ensure that only the best contractor organizations are authorized to offer the 15-year OASIS and limited lifetime Berk-Tek Leviton Technologies warranties.

Ask your Berk-Tek sales representative for more details or call 1-800-BERK-TEK.

There are many benefits to being a certified contractor in the OASIS program. In addition to being one of a very select group, you can offer warranties, have access to trainings and participate in the OASIS rebate programs.

LEARN MORE

Berk-Tek offers an OASIS Certified Integrator program for systems professionals who qualify. Only those contractors that demonstrate a commitment to quality workmanship, knowledge of industry standards, and that adhere to positive, proactive business management practices are admitted to the OASIS Certified Integrator program.

Your Time is Money

MAKE INSTALLS FASTER AND EASIER WITH TEKLOK AND SMARTPAK

It may seem like a small thing, but to a veteran installer, it's important: Berk-Tek's innovative and unique packaging designs have revolutionized cable installation.

TekLok Benefits at a Glance

- Standard feature on all Tek Pak pull boxes
- Available on 1,000 ft. boxes only
- Create more stable pulling stacks quickly and easily
- Easy to assemble interlocking tabs; no special tools required
- Quicker installation allows for reduced project costs
- Unique, environmentally-friendly design offers less packaging waste

LANMARK™-6 CAN MEAN MORE PROFIT FOR YOU

When the budget is tight, and network performance is still demanding, count on the verified and guaranteed performance of LANmark-6, and the installation efficiency and cost-savings of smartPAK. Then watch the savings go right to your bottom line.

LANMARK™-6 BENEFITS AT A GLANCE

- No center spline means fewer steps, less jobsite debris and faster installation
- Minimized star (*) passes, thanks to 2 dB of margin on NEXT, PSNEXT, ACR and PSACR.
- Small diameter cables mean better fill ratios in conduit or tray and allow for easy access at patch panels.

smart PAK 1500ft

Save on Both with Berk-Tek

CALCULATE YOUR SAVINGS

Have a larger project? Reduce scrap, waste and time with smartPAK. With 1,500 feet of cable in each box, versus standard 1,000 ft. boxes, Berk-Tek's smartPAK delivers the convenience and ease of use of a traditional pull-box with the additional benefits of 50% more cable. You get more cable pulls per box, saving you on labor and scrap. More cable means fewer boxes to transport and fewer changeovers, saving you time. The result: More efficient installations, reduced labor and waste and reduced costs.

Copper Cable Selection Guide

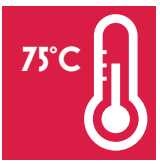
CATEGORY 6A

CATEGORY 6

CATEGORY 5E

PRODUCT ICON KEY

Berk-Tek's maximum recommended number of bundled homogeneous cables under the following conditions: Every cable energized to 100W (IEEE 802.11bt Type 4 PoE), and ambient room temperature assumed to be 45°C (113°F) for the length of the bundle. If planning to operate cables where elevated temperatures are possible (>20°C), take proper precautions when handling cabling. Please note bundling cables creates worst-case; therefore, if cables are not bundled, then the recommended maximum number of cables will increase in the conditions described above.



The maximum temperature to which the cable has been UL listed. This is a safety listing, and under no circumstances should a cable be placed in an environment where the temperature could exceed the maximum UL listing. For reference; 75˚C = 167˚F and 105˚C = 221˚F.

PEP (Product Environmental Profile) Ecopassports fulfill all LEED requirements for Environmental Product Declarations (EPDs) as they conform to ISO 14025 and follow EN 15804. PEP is an industry-wide organization which runs a program to provide Type III Environmental Product Declaration (EPD) for electrical, electronic, and HVAC products according to ISO 14025. Within the PEP association, EPDs are called PEP Ecopassports®. PEPs are product-specific EPDs and are valued as one full product towards LEED credit.

HPD (Heath Product Declaration) is an open standard that contains a standardized format and instructions for reporting a product's contents and its related Health information. This is in contrast to a PEP or EPD, which quantifies and reports the product's environmental impact. HPDs can contribute towards LEED points.

CA score							
	Score	**< 3.6**	**3.6 - 5.5**	**5.6 - 6.5**	**6.6 - 7.5**	**7.6 - 8.5**	**8.6 +**
	Performance	Unacceptable	Poor	Limited	Good	Better	Best
	Heat Rise	Severe	Significant	Moderate	Moderate	Moderate	Low

Converged Application Score.
The CA score ranges from 1 to 10, with a score of 10 being the best. A low CA Score means that there were consistent noticeable flaws (dropped frames, media loss, etc) in the applications tested. Higher scores mean there were fewer flaws. PoE testing is also an important factor; cables that experience less temperature rise achieve higher CA Scores.

UL Verified
Berk-Tek's CA Score, a testing process designed to measure the performance of cabling under the strain of increasing bandwidth demand, high power PoE, and environmental noise, has been independently verified by UL. All claims that are UL Verified are subjected to an extremely rigorous audit process of procedural documents, training records, equipment calibration, and system functionality.

LEARN MORE

SPECIFY WITH CERTAINTY BECAUSE UNCOMPROMISING PERFORMANCE IS OUR STANDARD

For more than 50 years, the Berk-Tek brand has been synonymous with high-quality/high-performance copper cabling. The list of Berk-Tek firsts is impressive, led by our industry-standard line of LANmark™ products.

When you specify any of the Berk-Tek LANmark™ products you can be sure that you are getting the performance you expect thanks to the ETL LANmark Verification Program. While many manufacturers claim performance above the standard, Berk-Tek is the first manufacturer to independently verify performance not to the standard, but beyond the standard to our own specifications.

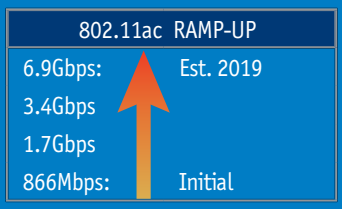
Through this program, Intertek, the world's largest independent testing, inspection and certification provider and proprietor of the ETL Verification Mark, independently selects and tests the Berk-Tek LANmark products to verify that performance meets or exceeds the guaranteed specification levels, ensuring that you receive the headroom you expect.

Put speculation and guesswork aside, and choose the only manufacturer providing independent verification of performance to product specifications: Berk-Tek.

Protect your network traffic from noise and heat in the real world with performance-leading LANmark-1000, LANmark-2000, LANmark-10G2 and LANmark-XTP cables. Only from Berk-Tek.

LANMARK™ AND WIRELESS

The wireless 802.11ac standard will ramp to 6.9Gbps from the wireless access point (WAP) back to the telecommunications room (TR). Therefore, Category 6A, which supports 10Gbps, is needed to support the full potential of 802.11ac. TIA TSB 162-A recommends two Category 6A cables per WAP to support future expansion. Berk-Tek recommends our LANmark-XTP Category 6A cable because of its superior performance protecting your IP traffic from the effects of noise, alien crosstalk, and heat from PoE.



ACHIEVE MAXIMUM PERFORMANCE FOR VOICE, DATA AND POWER AND PROTECT YOUR IP TRAFFIC FROM NOISE AND HEAT

When PoE was introduced over a decade ago, it changed the landscape of structured cabling networks. Today, for many applications, it's standard operating procedure. But higher power PoE is coming, and protecting network traffic from the noise and heat inherent with PoE will be critically important as the applications advance.

With their advanced engineering and field-proven design, Berk-Tek's LANmark integrated data cables protect your network from noise and heat, while they deliver consistent performance in real-world applications.

Proprietary insulating materials protect voice, data, video and other network traffic from heat. Our Tek-Twist technology protects network traffic from noise, while our field-tested and installer-proven premium jacketing materials protect the cable itself from the physical hazards of field installations.

As a result, your network is ready to support increasing demands for simultaneous voice, data, and power without compromising performance.

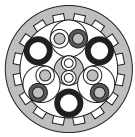
FEATURES AND BENEFITS

- Proprietary materials protect from heat
- Tek-Twist Technology protects from noise
- Only premium jacketing compounds are used, protecting your network investment

CHOOSING THE RIGHT CATEGORY 6A OPTION: ONE SIZE DOES NOT FIT ALL

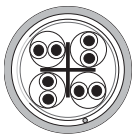
LANmark™ is the favorite Cat 6A cable line for a reason: flexibility. The entire LANmark™ line features advanced engineering and field-proven design. All Berk-Tek Category 6A options deliver extraordinary electrical performance, including support for robust PoE applications, while they protect your network from noise and heat. That makes choosing the right cable for your installation as flexible as you need it to be.

GOOD



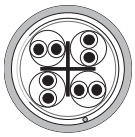
LANmark-10G2 meets the Cat 6A spec for Alien Crosstalk and provides excellent noise rejection and high PoE capability.

BETTER



LANmark-XTP is a “step-up” choice for Cat 6A applications with outstanding signal isolation, excellent high PoE performance and Alien Crosstalk performance that exceeds the Cat 6A standard.

BEST



LANmark-10G FTP is an FTP Cat 6A cable option that provides the most robust performance available in a Cat 6A cable. It features our best performance characteristics of any Cat 6A option.

LANmark™-XTP

UTP | 4-Pair

CA score 8.6

105°C

POE 100W 720

HPD

PEP eco PASS PORT

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +105°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

UL VERIFIED verifyUL.com B638581

FLAME RATING	
Non-Plenum	NFPA 70, CMR
Plenum	NFPA 70, CMP

Tested to 750 MHz | Supports 10 Gigabit Ethernet | Superior Alien Crosstalk Compliant Perfomance

- Innovative noise canceling XTP Technology delivers superior alien (AXT) performance
- Backwards compatible with Gigabit Ethernet to provide seamless migration to 10GBASE-T
- Manages the convergence of voice, video, data and power at 10 Gigabit Ethernet speeds, simplifying networks
- Supports both long and short channel
- Easier installation and cable management with reduced outer diameter of 0.275"
- Error-free performance of up to 10 Gigabit Ethernet with full duplex transmission up to 500 MHz
- No bonding or grounding needed allows for simple and efficient installation

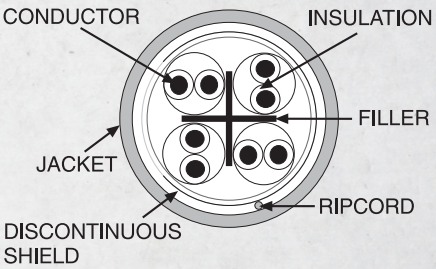
PART NUMBERS	CMP	CMR
Description	Berk-Tek	Berk-Tek
Gray 1000 ft. Reel	11094954	11095916
White 1000 ft. Reel	11082058	11082063
Blue 1000 ft. Reel	11082057	11082062

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-XTP

UTP | 4-Pair

The best choice for high bandwidth requirements, with excellent PoE performance and the only choice for HD video and 802.11ac wireless.



APPLICATIONS

Berk-Tek's LANmark-XTP UTP cable is intended to support the highest speeds in networking today – 10 Gigabits per second.

IEEE 802.3an	10GBASE-T	10 Gbps
IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA 854	1000BASE-TX	1 GBps
ATM	155 Mbps	155 Mbps
CDDI	10GBBASE-T	10 Gbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	1 Gbps
IEEE 802.3at	PoE+ Type 1&2	1 Gbps
IEEE 802.3bt	PoE Type 3&4	10 Gbps
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D Category 6A UL 444 & C22.2 No. 214-02

CONSTRUCTION

Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP (plenum). Two primaries twisted together to form a pair, four pairs cabled together with central filler to form a basic unit. Cable core surrounded by aluminum/polyester tape with flame retardant polymer alloy.

TECHNICAL DATA — PHYSICAL	CMP	CMR
Conductor	23 AWG solid bare copper	23 AWG solid bare copper
Conductor Diameter	0.022 in.	0.022 in.
Insulated Conductor Diameter	0.042 in.	0.047 in.
Cable Diameter	0.275 in.	0.275 in.
Cable Weight	40 lb./kft.	37 lb./kft.
Min. Bend Radius	1.00 in.	1.20 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR
Velocity of Propagation	70% nom.	67% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-10G2

UTP | 4-Pair

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +75°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR, IEC 332-1
Plenum	NFPA 262, CMP
Patch	UL 1685, CM, IEC 332-1

Tested to 750 MHz | Supports 10 Gigabit Ethernet | Alien Crosstalk Compliant

- Flexible, round, compact design
- Alien crosstalk compliant—ETL Verified
- Headroom for all crosstalk parameters
- Fully compliant to Category 6A requirements
- Documented balance characteristics (LCL/TCL, EL TCTL)
- Easier installation and cable management with round design
- Capable of reliably supporting 10GBASE-T networks
- Provides bandwidth required for multimedia, broadband video, analog video and other future applications
- Balance characteristics, improve overall cable performance and reduce transmission errors
- Improved insertion loss for stronger signal to noise ratio
- Characterized to 750 MHz, 250 MHz greater than the standard

Available in Reel in a Box

PART NUMBERS	CMP	CMR
Description	Berk-Tek	Berk-Tek
Blue 1000 ft. Reel in a Box	11085339	11084689
White 1000 ft. Reel in a Box	11089901	11089906
Gray 1000 ft. Reel in a Box	11089905	11089907

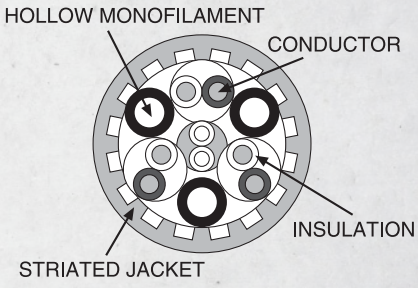
PART NUMBERS	CMP	CMR	PATCH
Description	Berk-Tek	Berk-Tek	Berk-Tek
Gray 1000 ft. Reel	11096831	11098650	11035873
White 1000 ft. Reel	10137384	10137703	10177330
Blue 1000 ft. Reel	10130484	10137700	10123772
Yellow 1000 ft. Reel	10137385	10137706	—
Green 1000 ft. Reel	10137694	10138770	10135528

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-10G2

UTP | 4-Pair

The next generation cable that is capable of meeting the demanding requirements for 10 Gigabit Ethernet.



APPLICATIONS

Berk-Tek's LANmark-10G2 UTP cable is intended to support the highest speeds in networking today – 10 Gigabits per second.

IEEE 802.3an	10GBASE-T	10 Gbps
IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA 854	1000BASE-TX	1 GBps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI	10 Mbps	
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	10 Gbps
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D Category 6A UL 444 & C22.2 No. 214-02
International	EU Directive 2006/96/EC (Low Voltage)
EU Directive	2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit made round with 3 monofilaments and with a striated flame-retardant PVC jacket.

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	23 AWG solid bare copper	23 AWG solid bare copper	26 AWG tinned stranded copper
Conductor Diameter	0.023 in.	0.023 in.	0.019 in.
Insulated Conductor Diameter	0.044 in.	0.044 in.	0.033 in.
Cable Diameter	0.300 in.	0.320 in.	0.290 in.
Cable Weight	38 lb./kft.	42 lb./kft.	40 lb./kft.
Min. Bend Radius	1.2 in.	1.28 in.	2.00 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	67% nom.	66% nom.	65% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-10G FTP

F/UTP | 4-Pair

TEMPERATURE RATING		
	CMP	CMR
Operation	-40°C to +60°C	-20°C to +75°C
Installation	-40°C to +60°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR
Plenum	NFPA 262, CMP

One Overall Foil Shield | Guaranteed to Category 6A | Superior Alien Crosstalk Performance

- ETL Verified to ANSI/TIA-568.2-D
- Outstanding signal isolation
- Resistant to alien crosstalk
- Increased signal isolation prevents contaminant noise from entering cabling system
- Completely compliant with IEEE requirements
- Lower bit errors resulting in increased network performance

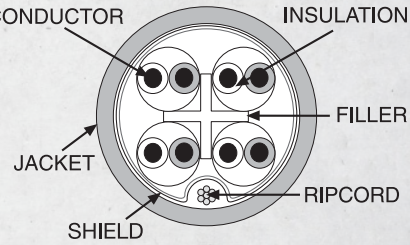
PART NUMBERS	CMP	CMR
Description	Berk-Tek	Berk-Tek
Gray 1000 ft. Reel	10167487	10189798
White 1000 ft. Reel	10167485	10189801
Blue 1000 ft. Reel	10143424	10189567
Yellow 1000 ft. Reel	10167488	10189803

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-10G FTP

F/UTP | 4-Pair

Ideal for applications that require the most advanced cable performance and the additional signal isolation advantages of an FTP design.



APPLICATIONS

Berk-Tek's LANmark-10G FTP cable is intended for high-speed data applications up to 500 MHz including:

IEEE 802.3	10GBASE-T	10 Gbps
IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA 854	1000BASE-TX	1 GBps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	10 Gbps
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D UL 444 & C22.2 No. 214-02
International	IEC 61156-5 ED2.0_46C844CDV
(RoHS)	EU Directive 2011/65/EU

CONSTRUCTION

23AWG Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP (plenum). Two insulated conductors twisted together with varying layers to form a pair and four pairs laid up to form the basic unit. The cable is shielded with an overall polyester/aluminum foil with stranded tinned copper drain wire and jacketed in flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR
Conductor	23 AWG solid bare copper	23 AWG solid bare copper
Conductor Diameter	0.022 in.	0.022 in.
Insulated Conductor Diameter	0.042 in.	0.047 in.
Cable Diameter	0.275 in.	0.290 in.
Cable Weight	40 lb./kft.	35 lb./kft.
Min. Bend Radius	1.10 in.	1.20 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR
Velocity of Propagation	70% nom.	66% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-10G OSP

UTP | 4-Pair

TEMPERATURE RATING	
Operation	-40°C to +60°C
Installation	-40°C to +60°C

FLAME RATING	
Non-Plenum	N/A
Plenum	N/A

23 AWG bare copper wire insulated with polyethylene | Intended for high speed data applications

- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 500 MHz
- Fully water blocked
- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplified structured cabling solution preserving long-term network investment
- Warranted, trouble-free cabling installation and maintenance
- Meets NEC requirement for wet locations

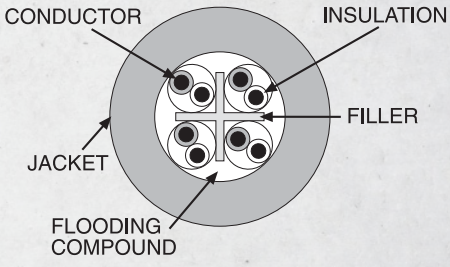
PART NUMBERS	OSP
Description	Berk-Tek
Black 1000 ft. Reel	11094458

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-10G OSP

UTP | 4-Pair

Designed for outside applications, either aerial or buried in conduit or duct, where building to building interconnections must be made.



APPLICATIONS

Berk-Tek's LANmark-10G OSP cable is intended for high speed data applications including:

IEEE 802.3	10GBASE-T	10 Gbps
TIA/EIA-854	1000BASE-TX	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af PoE		
IEEE 802.3at PoE+		
IEEE 802.3bt		

STANDARDS

North American	ANSI/TIA-568.2-D Category 6A ETL Verified ANSI/ICEA S-56-434 Outdoor Use ANSI/ICEA S-107-704-2012 PAR 8.2.1 Water Penetration

CONSTRUCTION

23 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled around a cross filler to form the basic unit which is injected with a water resistant flooding compound and jacketed with black weather resistant polyethylene jacket.

TECHNICAL DATA — PHYSICAL		
Conductor	23 AWG Bare Copper	
Conductor Diameter–in. (mm)	0.023	(0.58)
Insulated Conductor Diameter–in. (mm)	0.047	(1.19)
Cable diameter–in. (mm)	0.355	(9.02)
Nominal Cable Weight–lb./kft. (kg/kft)	50	(22.68)
Max. installation tension–lb. (N)	25	(111)
Min. bend radius–in. (mm)	1.42	(36.1)

TECHNICAL DATA — PARAMETRIC MEASUREMENTS	
Mutual Capacitance	5.3 nF/100 m nom.
DC Resistance	9.38 Ohms/100 m nom.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	64% nom.

RoHS COMPLIANT

TekPatch Mini-6A 28 AWG Patch

FTP | 4-Pair

TEMPERATURE RATING	
	CM
Operation	-20°C to +75°C
Installation	0°C to +50°C

FLAME RATING	
Patch	C (UL) US NEC Type CM-LSHF 75C

58% lighter | 30% smaller bend radius | 33% smaller cross-sectional area than standard Cat 6A patch cables

- The OD of 0.207" offers a 33% smaller cross-sectional area
- Usable bandwidth up to 500 MHz
- Small diameter provides for optimal routing within tight racks and cabinets
- Optimized airflow
- Light weight
- Extremely flexible

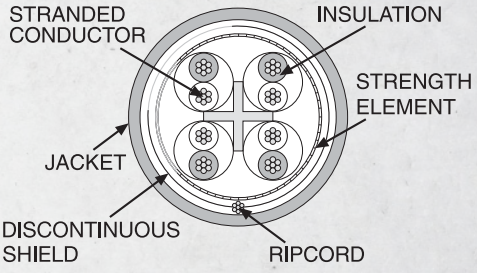
PART NUMBERS	PATCH
Description	Berk-Tek
Blue 1000 ft. Reel	11101178
White 1000 ft. Reel	11101046
Grey 1000 ft. Reel	11101179

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

TekPatch Mini-6A 28 AWG Patch

FTP | 4-Pair

TekPatch Mini-6A patch cable simplifies routing and reduces crowding in racks and pathways.



APPLICATIONS

Berk-Tek's TekPatch Mini-6A 28 AWG Patch cable is intended for high speed data applications including:

EEE 802.3an	10GBASE-T	10 Gb/s
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA 854	1000BASE-TX	1 Gb/s
ATM	155 Mb/s	155 Mb/s
CDDI	100 Mb/s	
IEEE 802.3	100BASE-T	10 Mb/s
IEEE 802.3 af	PoE	1 Gb/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s
IEEE 802.3 bt	PoE++, Type 3 & 4	10 Gb/s

STANDARDS

North American	UL 444 and C22.2 No. 214-02
International	EU Directive 2006/2/96/EC (Low Voltage) EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

28 AWG, stranded tinned copper wire insulated with polyolefin. Two insulated conductors twisted to form a pair and four such pairs cabled together with a central filler to form the basic unit. The basic unit is surrounded by polyester core tape and an aluminum/polyester shield. The cable core is jacketed with flame-retardant, 75C rated, zero halogen thermoplastic olefin.

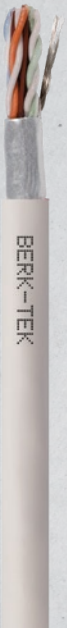
TECHNICAL DATA — PHYSICAL		
Conductor	28 AWG Stranded Copper	
Conductor Diameter in. (mm)	0.015	(0.381)
Insulated Conductor Diameter- in. (mm)	0.027	(0.686)
Cable diameter–in. (mm)	0.207	(5.258)
Nominal cable weight–lb./kft. (kg/kft)	20.0	(9.07)
Max. installation tension–lb. (N)	25.0	(111)
Min. bend radius–in. (mm)	1.7	(43.18)

TECHNICAL DATA — PARAMETRIC MEASUREMENTS	
Mutual Capacitance	5.6 nF/100 m at 1 KHz
DC Resistance	23.2 ohm/100m
Skew	45 ns/100 m maximum
Pair to ground Unbalance at 1kHz	330 pF/100 m
Velocity of Propagation	70% nom.
Input Impedance	1-100 MHz, 100 ohm ± 15%, 100-250 MHz, 100 ohm ± 22%
DC Resistance Unbalance	5% max., 1% nom.

RoHS COMPLIANT

LANmark™-HD

UTP | 4-Pair



TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +105°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	NFPA 70, CMR
Plenum	NFPA 70, CMP

Outstanding A/V performance over IP | Supports High Definition video (1080P) resolution applications

- Ideal for point-to-point AV connections in classrooms or conference rooms
- Easier installation and cable management with a reduced outer diameter of 0.275"
- Supports high power PoE/PoH applications
- 85% PoE/PoH efficiency
- Supports 720 cable bundles at 100W PoE
- Full shield for alien crosstalk protection
- Available in 500-foot lengths for cost-effective installations

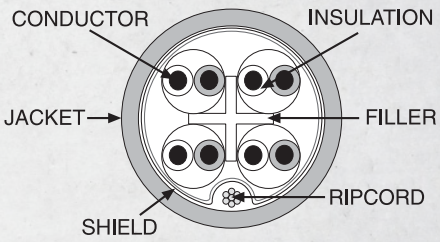
PART NUMBERS	CMP	CMR
Description	Berk-Tek	Berk-Tek
Gray 500 ft. Reel	11100944	11100948
White 500 ft. Reel	11100943	11100947
Blue 500 ft. Reel	11100942	11100946
Black 500 ft. Reel	11102178	11102177

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-HD

UTP | 4-Pair

A fully shielded cable specifically designed for High Definition AV applications.



APPLICATIONS

Berk-Tek's LANmark-HD (High Definition) cable is specifically designed to provide outstanding AV performance over IP. Its unique design and foil shield deliver error-free transmission and excellent PoE performance to maximize performance, minimize latency, and provide excellent PoE performance.

TIA/EIA 854	1000BASE-TX	1 GBps
ATM	155 Mbps	155 Mbps
CDDI	10GBBASE-T	10 GBps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	1 Gbps
IEEE 802.3at	PoE+ Type 1&2	1 Gbps
IEEE 802.3bt	PoE Type 3&4	1 Gbps
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D Category 6A UL 444 & C22.2 No. 214-02

CONSTRUCTION

Bare copper wire insulated with FEP (plenum) or foam polyethylene (non-plenum). Two insulated conductors twisted together to form a pair and four pairs laid up with a central filler to form the basic unit. The cable is shielded with an overall aluminum/polyester tape with a 26 AWG stranded tinned copper drain wire and jacketed in polymer alloy.

TECHNICAL DATA — PHYSICAL	CMP	CMR
Conductor	23 AWG Bare Copper	23 AWG Bare Copper
Conductor Diameter	0.022 in.	0.022 in.
Insulated Conductor Diameter	0.042 in.	0.042 in.
Cable Diameter	0.275 in.	0.275 in.
Nom. Cable Weight - per 500 ft.	20 lb./kft.	20 lb./kft.
Min. Bend Radius	2.20 in.	2.20 in.

RoHS COMPLIANT

LANmark™-2000

UTP | 4-Pair

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +90°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR
Plenum	NFPA 262, CMP
Patch	UL 1685, CM, IEC 332-1

Tested to 600 MHz | Ideal for PoE and VoIP | CCTV Support | Ideal for 2.5G and 5.0G

- Full duplex operation capable over four cable pairs
- Increased usable bandwidth vs. the Category 6 standard
- Documented balance characteristics (LCL/TCL, ELTCTL)
- Reduced attenuation (Insertion Loss)
- ETL Verified to ANSI/TIA-568.2-D
- Provides additional performance margin to reliably support
- Gigabit Ethernet in high-noise environments
- Provides bandwidth required for multimedia, broadband video, analog video and other future applications
- Balance characteristics improve overall cable performance and reduce cable emissions which results in reduced transmission errors
- Characterized to 600 MHz, 350 MHz greater than the standard
- Extended distance guarantee

Available in Reel in a Box

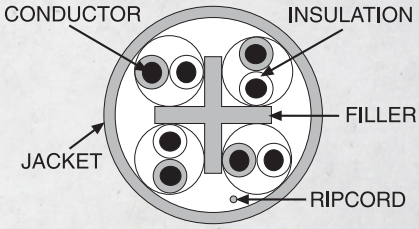
PART NUMBERS	CMP	CMR	PATCH
Description	Berk-Tek	Berk-Tek	Berk-Tek
Light Gray 1000 ft. Reel in a Box	11098632	11098633	10033598
White 1000 ft. Reel in a Box	10167312	10167481	10033821
Blue 1000 ft. Reel in a Box	10163780	10167477	10033822
Yellow 1000 ft. Reel in a Box	10167309	10167483	10033823
Green 1000 ft. Reel in a Box	10170669	10170688	10033825

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-2000

UTP | 4-Pair

Berk-Tek's highest performing premium Category 6 cable.



APPLICATIONS

Berk-Tek's LANmark-2000 UTP cable is intended for high-speed data and multi-media applications including:

IEEE 802.3an	10GBASE-T	1 Gbps
TIA/EIA 854	1000BASE-TX	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D UL 444 & C22.2 No. 214-02
International	ISO/IEC 11801 2nd Edition CAT 6 EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs laid up with crossfiller to form the basic unit jacketed with flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	23 AWG solid bare copper	23 AWG solid bare copper	24 AWG tinned stranded copper
Conductor Diameter	0.022 in.	0.022 in.	0.024 in.
Insulated Conductor Diameter	0.037 in.	0.039 in.	0.040 in.
Cable Diameter	0.220 in.	0.235 in.	0.250 in.
Cable Weight	28lb./kft.	27 lb./kft.	28 lb./kft.
Min. Bend Radius	1.0 in.	1.0 in.	1.0 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	72% nom.	69% nom.	67% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-1000

UTP | 4-Pair

CA score 7.3 | 75°C | POE 100W 312 | HPD | PEP eco PASS PORT

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +75°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR, IEC 332-1
Plenum	NFPA 262, CMP
Patch	UL 1685, CM, IEC 332-1
LSZH	IEC 332-1

Tested to 550 MHz | 1000BASE-T Capable | Cable Balance Reduces Effects of Noise | Ideal for 2.5G

- Full power sum performance
- Documented balance characteristics (LCL, LCTL)
- ETL Verified to ANSI/TIA-568.2-D
- Available in smartPAK 1500 ft. pull-box packaging
- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance for existing applications
- Addition of balance requirements improves overall cable performance and reduces transmission errors
- smartPAK boxes reduce cable scrap and increase install efficiency
- Characterized to 550 MHz, 300 MHz greater than the standard

smartPAK 1500 ft. Boxes

PART NUMBERS	CMP (44 lbs./box)	CMR (33 lbs./box)
Description	Berk-Tek	Berk-Tek
Blue 1500 ft. smartPAK Box	11074694	11074701
White 1500 ft. smartPAK Box	11074738	11074740
Gray 1500 ft. smartPAK Box	11097255	11097256

PART NUMBERS	CMP	CMR	PATCH*
Description	Berk-Tek	Berk-Tek	Berk-Tek
Gray 1000 ft. Tek Pak Box	11096490	11091087	10032678
White 1000 ft. Tek Pak Box	10032092	10032459	10032679
Blue 1000 ft. Tek Pak Box	10032094	10032455	10032680
Yellow 1000 ft. Tek Pak Box	10032090	10032461	10032681
Green 1000 ft. Tek Pak Box	10032097	10032479	10032693

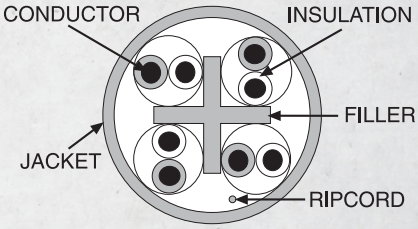
**Reels only*

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-1000

UTP | 4-Pair

An ANSI/TIA Enhanced Category 6 verified cable that is ideal for Gigabit Ethernet network applications.



APPLICATIONS

IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA-854	1000BASE-TX	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	
HDBaseT		
IP Video		
Broadband Video		

STANDARDS

North American	ANSI/TIA-568.2-D UL 444 and C22.2 No. 214-02
International	ISO/IEC 11801-2nd Edition CAT 6 EU Directive 2006/96/EC (Low Voltage) EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP and FRPP (plenum). Two insulated conductors twisted together to form a pair and four such pairs laid up with crossfiller to form the basic unit, jacketed with flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	23 AWG solid bare copper	23 AWG solid bare copper	24 AWG tinned stranded copper
Conductor Diameter	0.022 in.	0.022 in.	0.024 in.
Insulated Conductor Diameter	0.040 in.	0.039 in.	0.040 in.
Cable Diameter	0.225 in.	0.230 in.	0.220 in.
Cable Weight	26 lb./kft.	25 lb./kft.	25 lb./kft.
Min. Bend Radius	1.0 in.	1.0 in.	1.0 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	68% nom.	68% nom.	68% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-1000 OSP

UTP | 4-Pair

TEMPERATURE RATING	
Operation	-40°C to +60°C
Installation	-40°C to +60°C

FLAME RATING	
Non-Plenum	N/A
Plenum	N/A

Tested to 250 MHz | Outdoor Use | High speed data applications

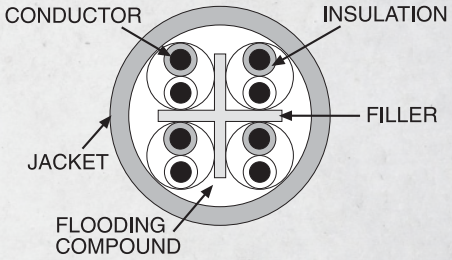
- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 250 MHz
- Fully water blocked
- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplified structured cabling solution preserving long-term network investment
- Warranted, trouble-free cabling installation and maintenance
- Meets NEC requirement for wet locations
- ANSI/ICEA 5-107-704-2012, PAR 8.2.1 - Water Penetration

PART NUMBERS	OSP
Description	Berk-Tek
Black 1000 ft. Reel	11072213

LANmark™-1000 OSP

UTP | 4-Pair

Designed for outside applications, either aerial or buried in conduit or duct, where building to building interconnections must be made.



APPLICATIONS

IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA-854	1000BASE-TX	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
802.3af PoE		
802.3at PoE+		
IEEE 802.3bt	PoE Type 3&4	

STANDARDS

North American	ANSI/TIA-568.2-D Category 6 ANSI/ICEA S-56-434 Outdoor Use

CONSTRUCTION

23 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled around a cross filler to form the basic unit which is injected with a water resistant flooding compound and jacketed with black weather resistant polyethylene jacket.

TECHNICAL DATA — PHYSICAL		
Conductor	23 AWG Bare Copper	
Conductor Diameter in. (mm)	0.022	(0.56)
Insulated Conductor Diameter- in. (mm)	0.040	(1.02)
Cable diameter–in. (mm)	0.245	(6.22)
Nominal cable weight–lb./kft. (kg/kft)	30.5	(13.83)
Max. installation tension–lb. (N)	25	(111)
Min. bend radius–in. (mm)	1	(25.4)

TECHNICAL DATA — PARAMETRIC MEASUREMENTS	
Mutual Capacitance	5.3 nF/100 m nom.
DC Resistance	9.38 Ohms/100 m nom.
Skew	35 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	65% nom.

RoHS COMPLIANT

LANmark™-6

UTP | 4-Pair

CA score 6.4 | 75°C | POE 100W 264 | HPD | PEP eco PASS PORT

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +75°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR, IEC 332-1
Plenum	NFPA 262, CMP

Guaranteed to 250 MHz | Cost-effective Category 6 Solution | No Center Spline | Ideal for 1.0G

- Inexpensive compact design with no center spline
- Available in smartPAK 1500 ft. pull-box packaging
- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 250 MHz
- Delivered in compact, strong, easy to identify boxes
- smartPAK boxes reduce cable scrap and increase install efficiency
- Simplified installation
- Cost-effective, entry-level Category 6 solution
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space
- Characterized to 500 MHz, 250 MHz greater than the standard

smartPAK 1500 ft. Boxes

PART NUMBERS	CMP (44 lbs./box)	CMR (33 lbs./box)
Description	Berk-Tek	Berk-Tek
Blue 1500 ft. smartPAK Box	11074702	11074703
White 1500 ft. smartPAK Box	11074742	11074744
Gray 1500 ft. smartPAK Box	11094952	11094953

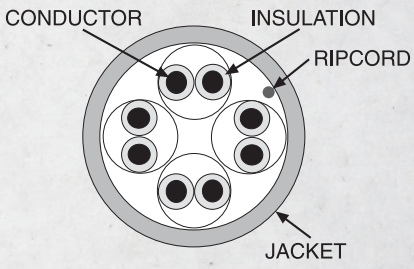
PART NUMBERS	CMP	CMR
Description	Berk-Tek	Berk-Tek
Gray 1000 ft. Tek Pak Box	11091258	11091257
White 1000 ft. Tek Pak Box	10136230	10136340
Blue 1000 ft. Tek Pak Box	10136226	10136339
Yellow 1000 ft. Tek Pak Box	10136749	10136753
Green 1000 ft. Tek Pak Box	10136748	10136752

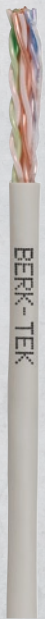
Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-6

UTP | 4-Pair

An ANSI/TIA Category 6 verified cable, constructed without a center spline for easy installation and termination.





APPLICATIONS

Berk-Tek's LANmark-6 UTP cable is intended for high-speed data applications including:

IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA-854	1000BASE-TX	1 Gbps
ATM	155 Mb/s	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	

STANDARDS

North American	ANSI/TIA-568.2-D UL 444 & C22.2 No. 214-02
International	ISO/IEC 11801 2nd Edition CAT 6 EU Directive 2006/96/EC (Low Voltage) EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with high-density polyethylene (non-plenum) or with FEP and polypropylene (plenum). Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR
Conductor	24 AWG solid bare copper	23 AWG solid bare copper
Conductor Diameter	0.022 in.	0.021 in.
Insulated Conductor Diameter	0.040 in.	0.038 in.
Cable Diameter	0.220 in.	0.205 in.
Cable Weight	27 lb./kft.	21 lb./kft.
Min. Bend Radius	1.0 in.	1.0 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR
Velocity of Propagation	67% nom.	69% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-6 OSP

UTP | 4-Pair

TEMPERATURE RATING	
	OSP
Operation	-40°C to +60°C
Installation	-40°C to +60°C

Tested to 250 MHz | Supports 1000BASE-T | Outdoor and Wet Compliant | 5% Propagation Allowance

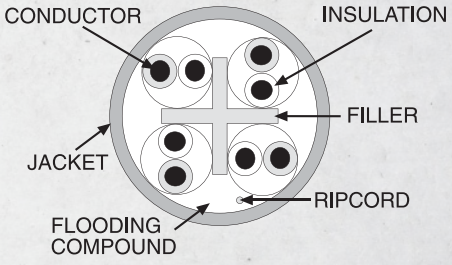
- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 250 MHz
- Fully water blocked
- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplifies structured cabling solution preserving long-term network investment
- Meets NEC requirement for cable in wet locations

PART NUMBERS	OSP
Description	Berk-Tek
Black 1000 ft. Reel	10139885

LANmark™-6 OSP

UTP | 4-Pair

Designed for outside applications, either aerial or buried in conduit or duct, where building-to-building interconnections must be made.



APPLICATIONS

Berk-Tek's LANmark-6 OSP UTP cable is intended for high-speed data applications including:

IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA-854	1000BASE-TX	1 Gbps
ATM	155 Mb/s	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
HDBaseT		

STANDARDS

North American	ANSI/TIA-568.2-D Category 6 ETL Verified ANSI/ICEA S-56-434 Outdoor Use ANSI/ICEA S-107-704-2012 PAR 8.2.1 Water Penetration
International	ISO/IEC 11801 EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled together around a cross-filler to form the basic unit. This basic unit is injected with a water-resistant flooding compound and jacketed with UV resistant polyethylene.

TECHNICAL DATA — PHYSICAL	OSP
Conductor	23 AWG solid bare copper
Conductor Diameter	0.022 in.
Insulated Conductor Diameter	0.04 in.
Cable Diameter	0.245 in.
Cable Weight	30.5 lb./kft.
Cable Jacket	Weather resistant polyethylene
Min. Bend Radius	1.0 in.

TECHNICAL DATA — ELECTRICAL	OSP
Velocity of Propagation	65% nom.
Time Delay Skew	45 nsec/100 m max.

RoHS COMPLIANT

LANmark™-6 FTP

F/UTP | 4-Pair

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +75°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	NFPA 262, CMP
Plenum	UL 1666, CMR
Patch	UL 1666, CMR

Guaranteed to 500 MHz | Ideal for PoE and VoIP | CCTV Support

- ETL Verified to ANSI/TIA-568.2-D
- Outstanding signal isolation
- Increased signal isolation prevents contaminant noise from entering cabling system
- Can be used with RJ-45 style F/UTP connectivity
- Lower bit errors resulting in increased network performance

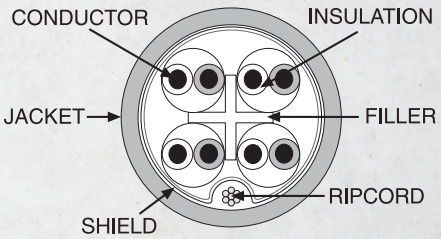
PART NUMBERS	CMP	CMR	PATCH
Description	Berk-Tek	Berk-Tek	Berk-Tek
Gray 1000 ft. Reel	10057903	10070439	10096091
Yellow 1000 ft. Reel	10062608	10090687	10123965
Red 1000 ft. Reel	10063671	10074211	10189258
Black 1000 ft. Reel	10063672	10074212	10189259

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

LANmark™-6 FTP

F/UTP | 4-Pair

Ideal for applications that require the most advanced cable performance and the additional signal isolation advantages of an F/UTP design.



APPLICATIONS

LANmark-6 FTP cable is intended for high-speed data applications including:

IEEE 802.3	1000BASE-T	1 Gbps
TIA/EIA 854	1000BASE-TX	1 GBps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	
HDBaseT		

STANDARDS

North American	ANSI/TIA-568.2-D UL 444 & C22.2 No. 214-02
International	ISO/IEC 11801 2nd Edition EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with foam FEP (plenum) or foam polyethylene (non-plenum). Two insulated conductors twisted together to form a pair and four pairs laid up to form the basic unit. The cable is shielded with an overall polyester/aluminum foil with stranded tinned copper drain wire and jacketed in flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	23 AWG solid bare copper	23 AWG solid bare copper	26 AWG tinned stranded copper
Conductor Diameter	0.022 in.	0.022 in.	0.019 in.
Insulated Conductor Diameter	0.042 in.	0.045 in.	0.035 in.
Cable Diameter	0.275 in.	0.280 in.	0.230 in.
Cable Weight	40 lb./kft.	36 lb./kft.	23 lb./kft.
Min. Bend Radius	2.20 in.	3.00 in.	3.00 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	70% nom.	68% nom.	66% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.	45 nsec/100 m max.

RoHS COMPLIANT

LANmark-IP

UTP | 4-Pair

CA score 8.1 | -20°C | 105°C | POE 100W 720 | HPD | PEP eco PASS PORT

TEMPERATURE RATING	
	CMP
Operation	-20°C to +105°C
Installation	0°C to +50°C

UL VERIFIED E638381

FLAME RATING	
Plenum	NFPA 60, CMP, UL Listed

Supports up to 100 watts and bandwidth requirements up to 1 Gigabit Ethernet

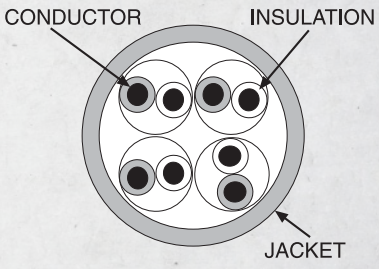
- The IP 5e cable utilizes 22 AWG copper conductors
- Small OD size of 0.240"
- No center filler
- All FEP insulated conductors
- 105°C temperature listing
- Usable bandwidth up to 250 MHz
- Lower temperature rise support 4PPoE versus traditional Category 5e or 6
- Reduced energy costs
- Improved flexibility and ease of installation
- Bandwidth beyond Category 5e requirements – guaranteed performance
- 88% power efficiency
- Supports emerging technologies

PART NUMBERS	CMP
Description	Berk-Tek
Blue 1000 ft. Reel in a Box	11098078
White 1000 ft. Reel in a Box	11098079
Gray 1000 ft. Reel in a Box	11098080

LANmark-IP

UTP | 4-Pair

Specifically designed to support emerging technologies and applications that require higher power PoE (802.3bt) over 4 pairs (4PPoE)



APPLICATIONS

Berk-Tek's IP 5e indoor cable is designed to support emerging technologies and applications including:

IEEE 802.3	1000BASE-T	1 Gbps
ATM	155 Mb/s	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	1 Gbps
IEEE 802.3at	PoE+Type 1&2	1 Gbps

STANDARDS

North American	ANSI/TIA-568.2-D; UL 444
International	ISO/IEC 11801

CONSTRUCTION

22 AWG bare copper wire insulated with FEP thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with polymer alloy.

TECHNICAL DATA — PHYSICAL	CMP	
Conductor	22 AWG Bare Copper	
Conductor Diameter	0.026 in.	(0.66) mm
Insulated Conductor Diameter	0.045 in.	(1.14) mm
Cable Diameter	0.24 in.	(6.10) mm
Nom. Cable Weight	20 lbs/kft.	20 lbs/kft.
Max. installation Tension	25 lb.	(110) N
Min. Bend Radius	1.00 in.	(25.40) mm

TECHNICAL DATA — PARAMETRIC MEASUREMENTS	
Mutual Capacitance	5.2 nF/100 m max.
DC Resistance	5.53 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	72% nom.
DC Resistance unbalance	5% max.

RoHS COMPLIANT

Hyper Plus 5e

UTP | 4-Pair

TEMPERATURE RATING		
	CMP	CMR
Operation	-20°C to +75°C	-20°C to +75°C
Installation	0°C to +50°C	0°C to +50°C

FLAME RATING	
Non-Plenum	UL 1666, CMR
Plenum	NFPA 262, CMP
Patch	UL 1685, CM

Tested to 250 MHz | Cost Effective Choice for Voice/Data

- Supports most data and voice applications
- Available in smartPAK 1500 ft. pull-box packaging
- ETL Verified to ANSI/TIA-568.2-D
- smartPAK boxes reduce cable scrap and increase install efficiency
- Universally accepted design for global commercial network installations
- Simplified structured cabling solution preserves long-term network investment
- Characterized to 250MHz, 150 MHz greater than standard

smartPAK 1500 ft. Boxes

PART NUMBERS	CMP (38 lbs./box)	CMR (27 lbs./box)
Description	Berk-Tek	Berk-Tek
Blue 1500 ft. smartPAK Box	11074705	11074706
White 1500 ft. smartPAK Box	11074746	11074748
Gray 1500 ft. smartPAK Box	11074747	11074749

PART NUMBERS	CMP	CMR	PATCH*
Description	Berk-Tek	Berk-Tek	Berk-Tek
Gray 1000 ft. Tek Pak Box	10032207	10032510	10032718
White 1000 ft. Tek Pak Box	10032223	10032535	10032716
Blue 1000 ft. Tek Pak Box	10032227	10032528	10032713
Yellow 1000 ft. Tek Pak Box	10032235	10032531	10032711
Green 1000 ft. Tek Pak Box	10032232	10032539	10032709

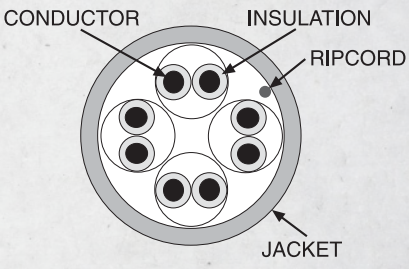
**Reels only*

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Hyper Plus 5e

UTP | 4-Pair

Designed for horizontal network and voice applications in a structured cabling network to connect the user outlet and horizontal cross-connect.



APPLICATIONS

Berk-Tek's Hyper Plus 5e Standard Category 5e UTP cable is intended for high-speed data applications up to 100 MHz including:

IEEE 802.3	1000BASE-T	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	

STANDARDS

North American	ANSI/TIA-568.2-D Category 6A UL 444 & C22.2 No. 214-02
International	ISO/IEC 11801 2nd Edition CAT 5 EU Directive 2011/65/EU (RoHS)

CONSTRUCTION

Bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	24 AWG solid bare copper	24 AWG solid bare copper	24 AWG tinned stranded copper
Conductor Diameter	0.020 in.	0.020 in.	0.024 in.
Insulated Conductor Diameter	0.038 in.	0.035 in.	0.040 in.
Cable Diameter	0.210 in.	0.187 in.	0.220 in.
Cable Weight	25 lb./kft.	18 lb./kft.	23 lb./kft.
Min. Bend Radius	1.0 in.	1.0 in.	1.0 in.

TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	66% nom.	70% nom.	69% nom.
Time Delay Skew	45 nsec/100 m max.	25 nsec/100 m max.	45 nsec/100 m max.
Input Impedance (1-100 MHz)	100 ohm +/- 15%	100 ohm +/- 15%	100 ohm +/- 15%

RoHS COMPLIANT

Hyper Plus 5e OSP

UTP | 4-Pair

TEMPERATURE RATING	
	CMP
Operation	-20°C to +60°C
Installation	-20°C to +60°C

Tested to 100 MHz | Supports 1000BASE-TX | Outdoor and Wet Environments

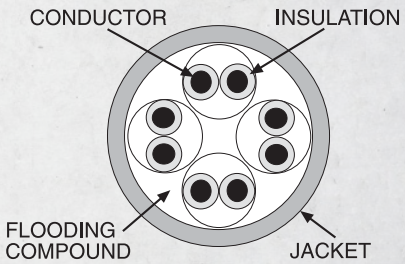
- Supports most data and voice applications
- Meets ANSI/ICEA 5-56-434 Standard for Polyolefin Insulated Communications Cables for Outdoor Use
- ETL Verified to ANSI/TIA-568.2-D
- Fully water blocked
- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplified structured cabling solution preserves long-term network investment
- Meets NEC requirement for cable in wet locations

PART NUMBERS	OSP
Description	Berk-Tek
Black 1000 ft. Reel	10071496

Hyper Plus 5e OSP

UTP | 4-Pair

Designed for outside applications, either aerial or buried in conduit or duct, where building-to-building interconnections must be made.



APPLICATIONS

Berk-Tek's Hyper Plus 5e OSP UTP cable is intended for high-speed data applications up to 100 MHz including:

IEEE 802.3	1000BASE-T	1 Gbps
ATM	155 Mbps	155 Mbps
IEEE 802.3	100BASE-TX	100 Mbps
CDDI		100 Mbps
IEEE 802.3	10BASE-T	10 Mbps
IEEE 802.3af	PoE	
IEEE 802.3at	PoE+	
IEEE 802.3bt	PoE Type 3&4	

STANDARDS

North American	ANSI/TIA-568.2-D ANSI/ICEA 5-56-434
International	ISO/IEC 11801 2nd Edition CAT 5 EU Directive 2002/95/EC (RoHS)

CONSTRUCTION

Bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit which is injected with a water resistant flooding compound and jacketed with UV resistant polyethylene.

TECHNICAL DATA — PHYSICAL	OSP
Conductor	24 AWG solid bare copper
Conductor Diameter	0.020 in.
Insulated Conductor Diameter	0.038 in.
Cable Diameter	0.210 in.
Cable Weight	22 lb./kft.
Cable Jacket	Weather resistant polyethylene
Min. Bend Radius	1.0 in.

TECHNICAL DATA — ELECTRICAL	OSP
Velocity of Propagation	65% nom.
Time Delay Skew	25 nsec/100 m max.

RoHS COMPLIANT


FB TekFlex 0014 TYPE OFNP (ETL) - OFN-FT6 c(ETL)

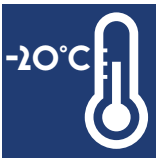
Fiber Cable Selection Guide

QUALITY IS ALWAYS IN THE DETAILS

When you choose a Berk-Tek fiber optic cable, you can be sure of performance excellence through engineered innovation. Cabling options include the compact and rugged Micro Data Center Plenum (MDP) and High Density Distribution Cable (ACP) as well as Adventum® indoor/outdoor cable, ArmorTek™ interlocking armor, and Premises Distribution constructions. All constructions feature our optimized GIGAlite™ optical fiber, which is engineered to deliver maximum reach and power budget.

PRODUCT ICON KEY

Maximum Fiber Count. This is the maximum number of fibers available in a particular cable construction.



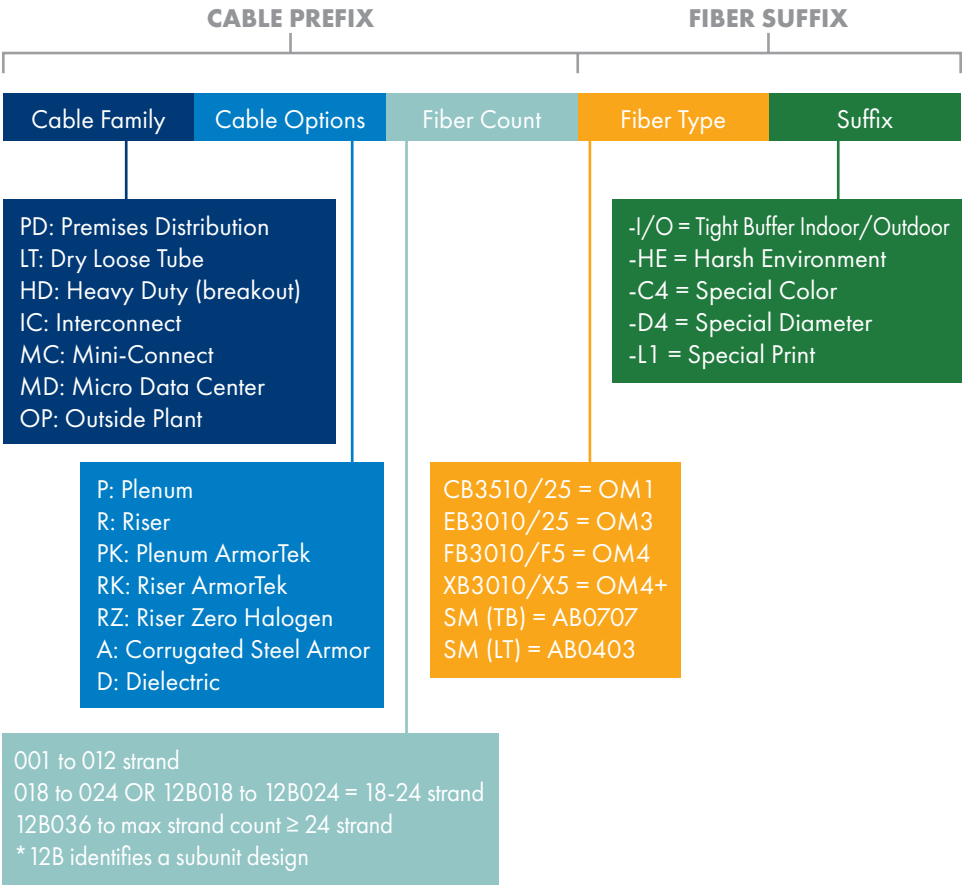
The lowest operating temperature for the cable design. This is a performance rating, and under no circumstances should a cable be installed in an environment where the temperature could fall below the minimum operating temperature. For reference; -40˚C = -40˚F and -20˚C = -4˚F.

The maximum operating temperature for the cable design. This is a performance rating, and under no circumstances should a cable be installed in an environment where the temperature could exceed the maximum operating temperature. For reference; 75˚C = 167˚F.

FIBER OPTIC CABLE PART NUMBERING SYSTEM

Berk-Tek's Fiber Optic Cable part numbers are composed of two basic units, the Cable Prefix and the Fiber Suffix. Throughout this catalog, fiber part number prefixes for each cable type are listed in the second column of the Technical Data tables. To accurately build your fiber part number, select the correct prefix and suffix.

Sample Part Number: **PDPK012EB3010/25-I/O**



Premises Distribution

Plenum Rated

TEMPERATURE RATING	
	PDP
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	0°C to +75°C
Sample Part Number: PDP024EB3010/25	

FLAME RATING	
Plenum	OFNP/FT6

Direct Termination | Up to 144 Fibers | Plenum Rated | Reduced Diameter Constructions

- Flexible, small-diameter, 900 µm tight-buffered, all dielectric construction
- High tensile strength and small-diameter design
- Six to 144-count fiber construction designs ideal for horizontal and backbone installation
- Single-mode, multimode and hybrid designs available
- Cost-saving design, easy to install and terminate
- Provides for greater pulling distances, reducing installation time
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Available with Armor-Tek™ Interlocking Armor
- Suitable for conduit or in-tray applications

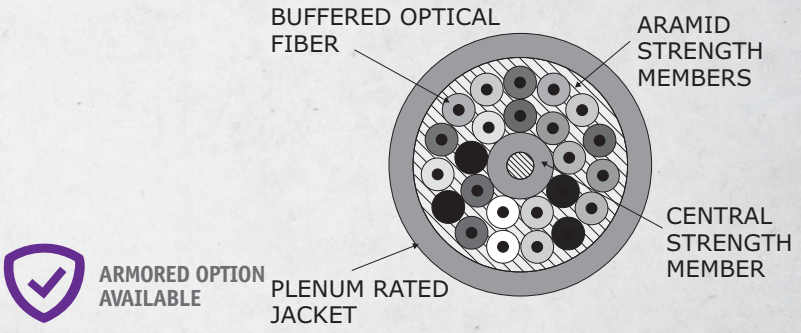
PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	PDP006	0.168	4.3	11	16	2.5	6.4	1.7	4.3	100	445	30	133
12	PDP012	0.200	5.1	16	24	3.0	7.6	2.0	5.1	150	667	45	200
24	PDP024	0.265	6.7	32	48	4.0	10.1	2.7	6.7	150	667	45	200
48	PDP12B048	0.558	14.2	136	202	8.4	21.3	5.6	14.2	600	2670	180	800
72	PDP12B072	0.671	17.0	212	316	10.1	25.6	6.7	17.0	600	2670	180	800
96	PDP12B096	0.859	21.8	313	466	12.9	32.7	8.6	21.8	600	2670	180	800
144	PDP12B144	0.896	22.8	318	474	13.4	34.1	9.0	22.8	1000	4445	300	1335

This is a representative part number listing. For part number details, refer to page 69.

Premises Distribution

Plenum Rated

This tight buffer fiber optical cable is designed for installation in plenum and riser environments, and horizontal and interbuilding backbone structures.



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	NFPA 130 Telcordia GR-409 ANSI/ICEA S-83-596
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers surrounded by aramid yarns. Cables with >24 fibers feature 12 fiber subunits stranded around a dielectric central member. Sheathed using a next-generation high performance plenum-rated polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Premises Distribution

Riser Rated

TEMPERATURE RATING	
	PDR
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	-20°C to +75°C
Sample Part Number: PDR024EB3010/25	

FLAME RATING	
Riser	OFNR/FT4

Direct Termination | Up to 144 Fibers | Reduced Diameter Constructions

- Flexible, small-diameter, 900 µm tight-buffered, all dielectric construction
- High tensile strength and small-diameter design
- Six to 144-count fiber construction designs ideal for horizontal and backbone installation
- Single-mode, multimode and hybrid designs available
- Also available in low-smoke zero-halogen design
- Cost-saving design, easy to install and terminate
- Provides for greater pulling distances, reducing installation time
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Available with Armor-Tek™ Interlocking Armor
- Suitable for conduit or in-tray applications

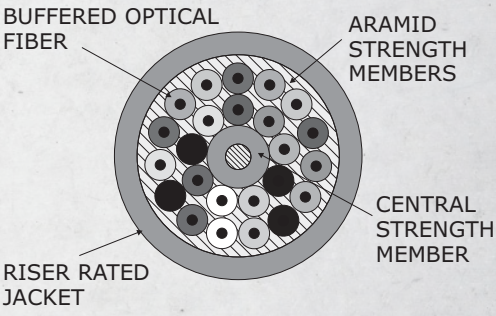
RISER (OFNR) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	PDR006	0.224	5.7	19	29	3.4	8.5	2.2	5.7	150	667	45	200
12	PDR012	0.246	6.2	25	37	3.7	9.4	2.5	6.2	150	667	45	200
24	PDR024	0.285	7.2	37	56	4.3	10.9	2.9	7.2	150	667	45	200
48	PDR12B048	0.590	15.0	131	196	8.9	22.5	5.9	15.0	600	2670	180	800
72	PDR12B072	0.732	18.6	203	301	11.0	27.9	7.3	18.6	600	2670	180	800
96	PDR12B096	0.880	22.4	291	433	13.2	33.5	8.8	22.4	600	2670	180	800
144	PDR12B144	0.940	23.9	310	461	14.1	35.8	9.4	23.9	1000	4445	300	1335

This is a representative part number listing. For part number details, refer to page 69.

Premises Distribution

Riser Rated

This tight buffer fiber optical cable is designed for installation in riser environments, and horizontal and interbuilding backbone structures.



LSZH OPTION AVAILABLE

ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-409 ANSI/ICEA S-83-596
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers surrounded by aramid yarns. Cables with >24 fibers feature 12 fiber subunits stranded around a dielectric central member. Sheathed using a next-generation high performance riser-rated polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Premises Distribution Indoor/Outdoor

Plenum Rated

TEMPERATURE RATING	
	PDP-I/O
Operation	-40°C to +75°C
Storage	-40°C to +85°C
Installation	0°C to +75°C
Sample Part Number: PDP024FB3010/F5-I/O-C4(AQU)	

FLAME RATING	
Riser	OFNP/FT6

Indoor/Outdoor | 900 µm tight buffer | Water blocked | Sunlight Resistant

- Plenum rating enables installations to go directly from outside plant into building with no transition point requirement
- High tensile strength, crush-resistant and small-diameter all dielectric design
- Ready for direct termination, no fan-out kits are needed
- Available with Armor-Tek™ Interlocking Armor
- Fully water-blocked core or subunits using all dry technology
- Fungus and sunlight resistant
- Designed for outside plant installation in conduit under the frost line (non-aerial lashed)
- Greater pulling distances possible due to high tensile strength
- Low cable plant maintenance and ease of installation
- Flexible, reduced cable diameter with easy access to tight buffer fibers
- Suitable for in-tray applications

PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	PDP006-I/O	0.170	4.3	11	17	2.6	6.5	1.7	4.3	150	667	45	200
12	PDP012-I/O	0.205	5.2	16	24	3.1	7.8	2.1	5.2	150	667	45	200
24	PDP024-I/O	0.275	7.0	33	49	4.1	10.5	2.8	7.0	300	1335	90	400
48	PDP12B048-I/O	0.558	14.2	136	202	8.4	21.3	5.6	14.2	600	2670	180	800
72	PDP12B072-I/O	0.671	17.0	212	316	10.1	25.6	6.7	17.0	600	2670	180	800
96	PDP12B096-I/O	0.859	21.8	313	466	12.9	32.7	8.6	21.8	600	2670	180	800
144	PDP12B144-I/O	0.896	22.8	318	474	13.4	34.1	9.0	22.8	1000	4445	300	1335

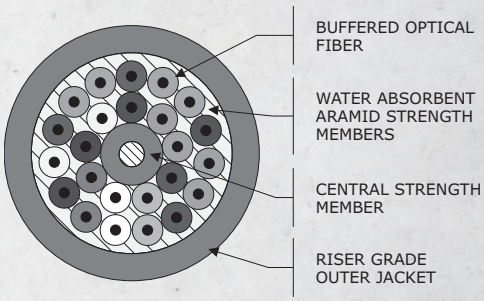
This is a representative part number listing. For part number details, refer to page 69.

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Premises Distribution Indoor/Outdoor

Plenum Rated

Plenum-rated indoor/outdoor cable is designed for LAN/WAN campus and building backbone cabling infrastructure.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	NFPA 130 Telcordia GR-409 ANSI/ICEA S-104-696
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers surrounded by water-blocking aramid yarns. Cables with >24 fibers feature 12 fiber subunits stranded around a dielectric central member with water-blocking yarns. Sheathed using a next-generation high performance plenum-rated polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Premises Distribution Indoor/Outdoor

Riser Rated

TEMPERATURE RATING	
	PDR-I/O(BLA)
Operation	-40°C to +75°C
Storage	-40°C to +85°C
Installation	-20°C to +75°C
Sample Part Number: PDR12B144XB3010/X5-I/O(BLA)	

FLAME RATING	
Riser	OFNR/FT4

Indoor/Outdoor | 900 µm tight buffer | Water blocked | Sunlight Resistant

- Riser rating enables installations to go directly from outside plant into building with no transition point requirement
- High tensile strength, crush-resistant and small-diameter all dielectric design
- Ready for direct termination, no fan-out kits are needed
- Available with Armor-Tek™ Interlocking Armor
- Fully water-blocked core or subunits using all dry technology
- Fungus and sunlight resistant
- Designed for outside plant installation in conduit under the frost line (non-aerial lashed)
- Greater pulling distances possible due to high tensile strength
- Low cable plant maintenance and ease of installation
- Flexible, reduced cable diameter with easy access to tight buffer fibers
- Suitable for in-tray applications

RISER (OFNR) RATED TECHNICAL DATA -- PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
2	ICR002-I/O(BLA)	0.187	4.75	12	17	2.8	7.1	1.9	4.8	150	667	45	200
4	ICR004-I/O(BLA)	0.187	4.75	12	18	2.8	7.1	1.9	4.8	150	667	45	200
6	PDR006-I/O(BLA)	0.224	5.7	18	27	3.4	8.5	2.2	5.7	150	667	45	200
12	PDR012-I/O(BLA)	0.246	6.2	25	37	3.7	9.4	2.5	6.2	150	667	45	200
24	PDR024-I/O(BLA)	0.335	8.5	47	70	5.0	12.8	3.4	8.5	300	1335	90	400
48	PDR12B048-I/O(BLA)	0.590	15.0	131	196	8.9	22.5	5.9	15.0	600	2670	180	800
72	PDR12B072-I/O(BLA)	0.732	18.6	203	301	11.0	27.9	7.3	18.6	600	2670	180	800
96	PDR12B096-I/O(BLA)	0.880	22.4	291	433	13.2	33.5	8.8	22.4	600	2670	180	800
144	PDR12B144-I/O(BLA)	0.940	23.9	310	461	14.1	35.8	9.4	23.9	1000	4445	300	1335

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

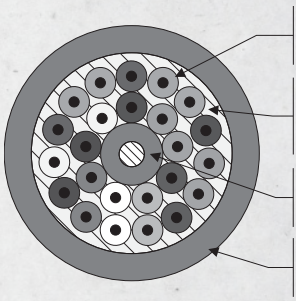
Premises Distribution Indoor/Outdoor

Riser Rated

Riser-rated indoor/outdoor cable is designed for LAN/WAN campus and building backbone cabling infrastructure.

LSZH OPTION AVAILABLE

ARMORED OPTION AVAILABLE



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	Telcordia GR-409 ANSI/ICEA S-104-696
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers surrounded by water-blocking aramid yarns. Cables with >24 fibers feature 12 fiber subunits stranded around a dielectric central member with water-blocking and aramid yarns. Sheathed using a next-generation high performance riser-rated polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Premises Distribution Harsh Environment

Plenum Rated

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-40°C to +85°C
Installation	-20°C to +75°C
Sample Part Number: PDP012XB3010/X5-HE(BLA)	

FLAME RATING	
Riser	OFNP/FT6

All dielectric | 2-144 tight buffered (900 µm) fibers | Dry water blocked cable core

- Designed for use in airports, automotive plants, and other harsh industrial petrochemical environments
- Plenum grade thermoplastic jacket, resistant to corrosive chemicals, fuels, and de-icing agent
- Suitable for installation in conduits, ducts, or cable trays
- 2 to 144 count fiber construction plenum designs ideal for horizontal and backbone installation
- Flexible, small diameter, 900 µm tight buffered construction
- High tensile strength and small diameter design
- Single-mode, multimode, and hybrid designs available
- Other standard colors available
- Available with Armor-Tek™ Interlocking Armor
- Cost-saving design, easy to install and terminate
- Provides for greater pulling distances, reducing installation time
- Broad design selection allows for mix and match of fiber components to specific networking applications
- One cable design meeting all structured cabling network communications applications

PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
2	ICP002-HE(BLA)	0.170	4.3	12	18	2.6	6.5	1.7	4.3	150	660	45	198
4	ICP004-HE(BLA)	0.170	4.3	13	19	2.6	6.5	1.7	4.3	150	660	45	198
6	PDP006-HE(BLA)	0.208	5.3	18	26	3.1	7.9	2.1	5.3	300	1335	90	400
12	PDP012-HE(BLA)	0.263	6.7	30	44	3.9	10.0	2.6	6.7	300	1335	90	400
24	PDP024-HE(BLA)	0.287	7.3	36	53	4.3	10.9	2.9	7.3	300	1335	90	400
48	PDP12B048-HE(BLA)	0.580	14.7	135	201	8.7	22.1	5.8	14.7	600	2670	180	800
72	PDP12B072-HE(BLA)	0.701	17.8	206	307	10.5	26.7	7.0	17.8	600	2670	180	800
96	PDP12B096-HE(BLA)	0.859	21.8	313	466	12.9	32.7	8.6	21.8	800	3559	240	1068
144	PDP12B144-HE(BLA)	0.896	22.8	318	474	13.4	34.1	9.0	22.8	1000	4445	300	1335

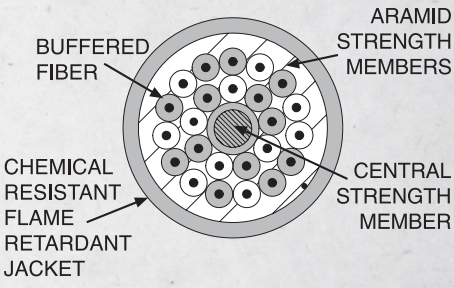
This is a representative part number listing. For part number details, refer to page 69.

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Premises Distribution Harsh Environment

Plenum Rated

Cables can be utilized inside or between buildings or industrial environments where corrosive chemicals, fuels, or vapors may be present.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	ANSI/ICEA S-104-696 ANSI/TIA-568.3-D NFPA 130, Telcordia GR-409
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers, water-blocking aramid yarns, and a chemical resistant next-generation high-performance polymer outer jacket. PDP-HE designs use a dielectric central member. 36-144 fiber designs use 12-fiber subunits.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Interconnect

Plenum Rated

TEMPERATURE RATING	
	MCP or ICP
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	0°C to +75°C
Sample Part Number: ICP0X0EB3010/25	

FLAME RATING	
Plenum	OFNP/FT6

900 µm or 600 µm tight buffer | Plenum Rated

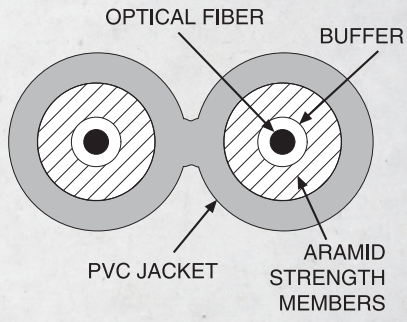
- 1 to 4-count fiber construction designs ideal for horizontal installation
- Space-saving design allows for dense patchcord cable installations
- Flexible, small-diameter, 900 µm tight-buffered construction in the ICP and MCP Series
- Microconnect reduced diameter cables available with 600 µm tight buffers
- High tensile strength and small-diameter design
- Single-mode, multimode and hybrid designs available
- Cost-saving design, easy to install and terminate
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Suitable for conduit or in tray installations

PLENUM (OFNP) RATED TECHNICAL DATA – PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
1	MCP001	0.063	1.6	2	3	0.9	2.4	0.6	1.6	25	111	8	33
2	MCP002	0.114	2.9	5	7	1.7	4.3	1.1	2.9	50	220	15	66
2 Duplex	MCP0X0	0.063 x 0.130	1.6 x 3.3	4	6	2.0	5.0	1.3	3.3	25	111	8	33
1	ICP001	0.079	2.0	2	3	1.2	3.0	0.8	2.0	25	111	8	33
2 Duplex	ICP0X0	0.079 x 0.162	2.0 x 4.1	5	8	1.2	3.0	0.8	2.0	25	111	8	33
2	ICP002	0.170	4.3	12	18	2.6	6.5	1.7	4.3	100	445	30	133
4	ICP004	0.170	4.3	13	20	2.6	6.5	1.7	4.3	100	445	30	133

Interconnect

Plenum Rated

Berk-Tek's Interconnect tight-buffered cable is designed for installation in plenum environments including horizontal and patchcord applications.



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	NFPA 130 Telcordia GR-409 ICEA S-83-596
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

ICP and MCP utilize 900 µm buffered fibers surrounded by aramid yarns. Sheathed using a next-generation high performance plenum polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Interconnect

Riser Rated

TEMPERATURE RATING	
	MCR or ICR
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	-10°C to +70°C
Sample Part Number: ICR0X0AB0707	

FLAME RATING	
Riser	OFNR/FT4

900 µm tight buffer | Riser Rated | Low-smoke zero-halogen (LSZH) available

- 1 to 4-count fiber construction designs ideal for horizontal installations
- Space-saving design allows for dense patchcord cable installations
- Flexible, small-diameter, 900 µm tight-buffered construction
- Microconnect reduced diameter cables available with 600 µm tight buffers
- High tensile strength and small-diameter design
- Single-mode, multimode and hybrid designs available
- Cost-saving design, easy to install and terminate
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Suitable for conduit or in tray installations
- Available with ArmorTek™ Interlocking Armor
- Water blocked indoor/outdoor design available

RISER (OFNR) RATED TECHNICAL DATA – PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
1	MCR001	0.063	1.6	2	3	0.9	2.4	0.6	1.6	25	111	8	33
2 Duplex	MCR0X0	0.062 x 0.138	1.6 x 3.5	3	5	0.9	2.4	0.6	1.6	25	111	8	33
2 Round	MCR002	0.114	2.9	5	7	1.7	4.3	1.1	2.9	50	220	15	66
1	ICR001	0.079	2.0	3	4	1.2	3.0	0.8	2.0	25	111	8	33
2 Duplex	ICR0X0	0.079 x 0.162	2.0 x 4.1	5	8	1.2	3.0	0.8	2.0	25	111	8	33
2 Round	ICR002	0.187	4.8	12	17	2.8	7.1	1.9	4.8	100	445	30	133
4	ICR004	0.187	4.8	12	18	2.8	7.1	1.9	4.8	100	445	30	133

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

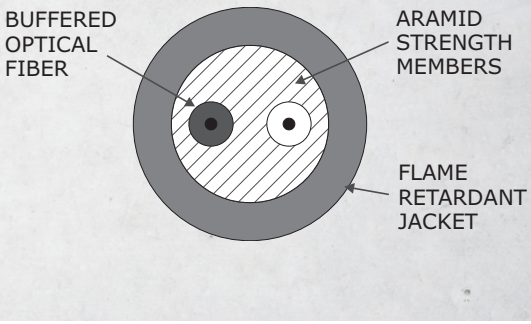
Interconnect

Riser Rated

Berk-Tek's Interconnect Tight Buffer Fiber Optic Cable is designed for installation in riser environments including horizontal and patchcord applications.

LSZH OPTION AVAILABLE

ARMORED OPTION AVAILABLE



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-409 ICEA S-83-596 European EN 50173
International	ISO/IEC 11801

CONSTRUCTION

900 µm buffered fibers surrounded by aramid yarns. Sheathed using a next-generation high performance riser-rated polymer.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Heavy Duty Breakout Cable

Plenum Rated

TEMPERATURE RATING	
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	-20°C to +75°C
Sample Part Number: HDP006AB0707	

FLAME RATING	
Plenum	OFNP/FT6

2-36 Fibers – Plenum | Rugged construction for harsh environments | Tape wrapped dry core

- Multimode, Single-mode, and GIGAlite™ fibers
- High tensile strength, crush resistant
- All-dielectric or aluminum armored designs available
- Water-blocked indoor/outdoor and harsh environment designs available
- High tensile strength provides for greater pulling distances
- Ease of installation
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Suitable for conduit or in-tray installations
- Low cable plant maintenance
- Armor option adds crush resistance and protection from rodent attacks

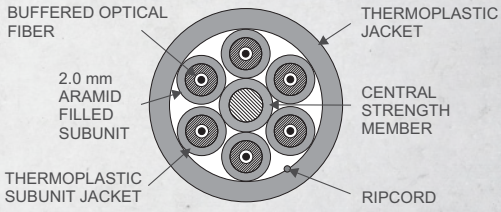
PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
2	HDP002	0.200	5.1	13	20	3.0	7.6	2.0	5.1	150	660	45	198
4	HDP004	0.264	6.7	35	53	4.0	10.1	2.6	6.7	150	660	45	198
6	HDP006	0.312	7.9	56	83	4.7	11.9	3.1	7.9	150	660	45	198
12	HDP012	0.474	12.0	124	185	7.1	18.1	4.7	12.0	300	1320	90	396
24	HDP024	0.556	14.1	164	245	8.3	21.2	5.6	14.1	600	2640	180	792
36	HDP036	0.641	16.3	205	305	9.6	24.4	6.4	16.3	1000	4448	300	1320

This is a representative part number listing. For part number details, refer to page 69.

Heavy Duty Breakout Cable

Plenum Rated

Designed for installation in horizontal and other harsh environments where additional strength and fiber protection is required.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-409 ANSI/TIA-568.3-D NFPA 130
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Each cable utilizes individual subunits containing a single 900 µm tight buffered fiber, surrounded by aramid yarns. Subunits are stranded around a dielectric central strength member, wrapped with mylar tape, and sheathed with a high-performance next-generation plenum thermoplastic jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Heavy Duty Breakout Cable

Riser Rated

TEMPERATURE RATING	
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	-20°C to +75°C
Sample Part Number: HDR006AB0707	

FLAME RATING	
Riser	OFNR/FT4

2-48 Fibers – Riser | Rugged construction for harsh environments | Tape wrapped dry core

- Multimode, Single-mode, and GIGAlite™ fibers
- High tensile strength, crush resistant
- All-dielectric or aluminum armored designs available
- Water-blocked indoor/outdoor designs available
- High tensile strength provides for greater pulling distances
- Ease of installation
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Suitable for conduit or in-tray installations
- Low cable plant maintenance
- Armor option adds crush resistance and protection from rodent attacks

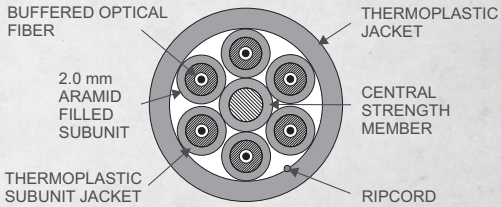
RISER (OFNR) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
2	HDR002	0.268	6.8	32	48	4.0	10.2	2.7	6.8	150	660	45	198
4	HDR004	0.268	6.8	34	50	4.0	10.2	2.7	6.8	150	660	45	198
6	HDR006	0.315	8.0	48	72	4.7	12.0	3.2	8.0	150	660	45	198
12	HDR012	0.470	11.9	102	151	7.1	17.9	4.7	11.9	300	1320	90	396
24	HDR024	0.614	15.6	144	214	9.2	23.4	6.1	15.6	600	2640	180	792
36	HDR036	0.699	17.8	177	264	10.5	26.6	7.0	17.8	1000	4445	300	1584
48	HDR048	0.864	21.9	271	403	13.0	32.9	8.6	21.9	1000	4445	300	1584

This is a representative part number listing. For part number details, refer to page 69.

Heavy Duty Breakout Cable

Riser Rated

Designed for installation in horizontal and other harsh environments where additional strength and fiber protection is required.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-409 ANSI/TIA-568.3-D
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Each cable utilizes individual subunits containing a single 900 µm tight buffered fiber, surrounded by aramid yarns. Subunits are stranded around a dielectric central strength member, wrapped with mylar tape, and sheathed with a high-performance next-generation riser thermoplastic jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Adventum® Indoor/Outdoor Loose Tube

Plenum Rated

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-60°C to +85°C
Installation	-20°C to +60°C
Sample Part Number: LTP12B048FB3010/F5	

FLAME RATING	
Plenum	OFNP/FT6

Indoor/Outdoor | Up to 432 fibers | Plenum Rated | Totally dry construction

- Plenum rating enables installation to go directly from outside plant to riser shaft with no transition points
- Cable core and buffer tubes use dry water-blocking technology
- Interlocking armor designs available
- No transition point required
- Greatly reduced installation time and cost because there is no cleaning of gels required for installation
- System grounding requirements are eliminated (for non-armored versions)
- Suitable for conduit or in-tray installations

PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
6	LTP006	0.260	6.6	30	45	3.9	9.9	2.6	6.6	300	1335	90	400
12	LTP012	0.260	6.6	33	49	3.9	9.9	2.6	6.6	300	1335	90	400
24	LTP12B024	0.370	9.4	55	82	5.6	14.1	3.7	9.4	300	1335	90	400
48	LTP12B048	0.370	9.4	56	83	5.6	14.1	3.7	9.4	300	1335	90	400
72	LTP12B072	0.460	11.7	80	119	6.9	17.5	4.6	11.7	600	2670	200	890
144	LTP12B144	0.670	17.0	209	311	10.1	25.5	6.7	17.0	1000	4448	300	1335
432	LTP12B432	0.940	23.9	362	539	14.1	35.8	9.4	23.9	1000	4448	300	1335

This is a representative part number listing. For part number details, refer to page 69.

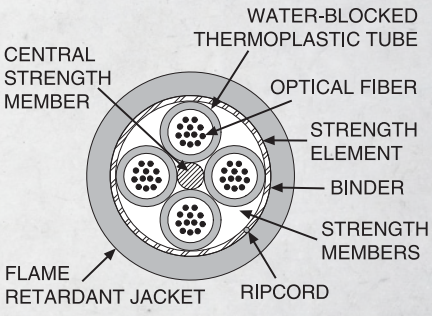
Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Adventum® Indoor/Outdoor Loose Tube

Plenum Rated

Place Adventum® anywhere in a network, bypassing the traditional transition points required in most installations, saving significant cost over traditional OSP cables.

ARMORED OPTION AVAILABLE



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	Telcordia GR-409 ICEA S-104-696 & ANSI/ICEA S-87-640 NFPA 130
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Water-blocked color-coded loose tubes containing up to 12, 250 µm, individually colored fibers. Fiber counts over 12 use a dielectric central strength member. Water-blocking strength yarns are covered by a high performance next-generation plenum thermoplastic jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Adventum® Indoor/Outdoor Loose Tube

Riser Rated

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-60°C to +85°C
Installation	-20°C to +60°C
Sample Part Number: LTR012LB3010/75	

FLAME RATING	
Riser	OFNR/FT4

Indoor/Outdoor | Up to 432 fibers | Riser or zero-halogen | Totally dry construction

- Riser rating enables installation to go directly from outside plant to riser shaft with no transition points
- Cable core and buffer tubes use dry water-blocking technology
- Interlocking armor designs available
- No transition point required
- Greatly reduced installation time and cost because there is no cleaning of gels required for installation
- System grounding requirements are eliminated (for non-armored versions)
- Suitable for conduit or in-tray installations

RISER (OFNR) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
6	LTR006	0.255	6.5	29	44	3.8	9.7	2.6	6.5	300	1335	90	400
12	LTR012	0.255	6.5	30	44	3.8	9.7	2.6	6.5	300	1335	90	400
24	LTR12B024	0.396	10.1	59	88	5.9	15.1	4.0	10.1	300	1335	90	400
48	LTR12B048	0.396	10.1	60	90	5.9	15.1	4.0	10.1	300	1335	90	400
72	LTR12B072	0.467	11.9	81	121	7.0	17.8	4.7	11.9	600	2670	200	890
144	LTR12B144	0.696	17.7	178	265	10.4	26.5	7.0	17.7	1000	4448	300	1335
432	LTR12B432	0.953	24.2	301	447	14.3	36.3	9.5	24.2	1000	4448	300	1335

This is a representative part number listing. For part number details, refer to page 69.

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

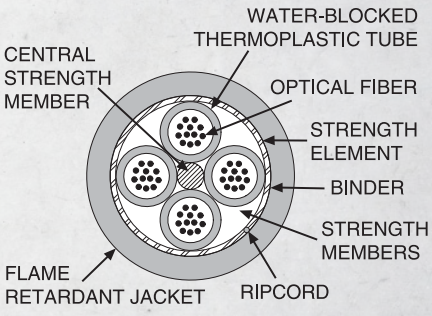
Adventum® Indoor/Outdoor Loose Tube

Riser Rated

Place Adventum® anywhere in a network, bypassing the traditional transition points required in most installations, saving significant cost over traditional OSP cables.

LSZH OPTION AVAILABLE

ARMORED OPTION AVAILABLE



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	Telcordia GR-409 ICEA S-104-696 & ANSI/ICEA S-87-640
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Water-blocked color-coded loose tubes containing up to 12, 250 µm, individually colored fibers. Fiber counts over 12 use a dielectric central strength member. Water-blocking strength yarns are covered by a high performance next-generation riser thermoplastic jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Adventum® Harsh Environment

Plenum Rated

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-60°C to +85°C
Installation	-20°C to +60°C
Sample Part Number: LTP12B072XB3010/X5	

FLAME RATING	
Plenum	OFNP/FT6

Chemical-resistant jacket | Indoor/Outdoor Plenum rated | 2 to 432 count fiber

- Harsh Environment (HE), chemical resistant jacket
- UV resistant outer jacket protects the cable in outside plant installations
- Can be installed directly from outside plant to riser shaft or through plenum spaces; transition points not needed
- Resistant to chemicals, fuels and de-icing agent
- Dry water-blocked, plenum rated, flexible loose tube design of all dielectric construction allows for installation in any outside plant or interior space
- No cleaning of gels required for installation, greatly reducing installation time and cost
- System grounding requirements are eliminated
- Suitable for conduit or in-tray installations

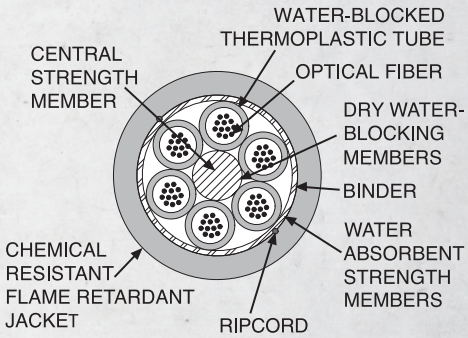
PLENUM (OFNP) RATED TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	LTP12B006-HE-D4	0.460	11.7	87	129	6.9	17.5	4.6	11.7	600	2670	200	890
12	LTP12B012-HE-D4	0.460	11.7	87	129	6.9	17.5	4.6	11.7	600	2670	200	890
24	LTP12B024-HE-D4	0.460	11.7	87	130	6.9	17.5	4.6	11.7	600	2670	200	890
36	LTP12B036-HE-D4	0.460	11.7	88	131	6.9	17.5	4.6	11.7	600	2670	200	890
48	LTP12B048-HE-D4	0.460	11.7	88	131	6.9	17.5	4.6	11.7	600	2670	200	890
60	LTP12B060-HE	0.460	11.7	89	132	6.9	17.5	4.6	11.7	600	2670	200	890
72	LTP12B072-HE	0.460	11.7	89	132	6.9	17.5	4.6	11.7	600	2670	200	890
96	LTP12B096-HE	0.532	13.5	126	187	8.0	20.3	5.3	13.5	600	2670	200	890
144	LTP12B144-HE	0.700	17.8	212	315	10.5	26.7	7.0	17.8	1000	4448	300	1335
216	LTP12B216-HE	0.700	17.8	180	269	10.5	26.7	7.0	17.8	1000	4448	300	1335
432	LTP12B432-HE	0.940	23.9	362	539	14.1	35.8	9.4	23.9	1000	4448	300	1335

This is a representative part number listing. For part number details, refer to page 69.
If HPD or PEP certification is required, additional lead time may be needed. For details, please contact us at 1-800-BERK-TEK.

Adventum® Harsh Environment

Plenum Rated

Plenum-Rated Indoor/Outdoor Harsh Environment cable designed for LAN/WAN campus, building backbones and industrial environments.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

NOTE: Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

STANDARDS

North American	ICEA S-104-696 ANSI/ICEA S-83-596 ANSI/TIA-568.3-D NFPA 130 Telcordia GR-409
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Chemical resistant water-blocked loose tubes with up to 12 250 µm fibers. Fiber counts >12 use a dielectric central strength member. Water-blocking strength yarns are covered by a chemical resistant plenum thermoplastic jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0403	Standard for Loose Tube	SMF	1300/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Outside Plant

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-60°C to +85°C
Installation	-30°C to +60°C
Sample Part Number: OPDD12B048AB0403	

Outdoor, duct, aerial or direct burial | Up to 432 fibers | Riser or low-smoke zero-halogen (LSZH) options

- Gel-filled loose tubes
- Suitable for outside plant, in conduit, aerial lashing and cable tray installations
- Fully water-blocked core using dry water-blocking technology
- All dry constructions available by request
- Corrugated steel armor available for rodent resistance and direct buried installation
- High tensile strength, crush-resistant and small-diameter design allows for installation in small interior spaces
- Single-mode, multimode and hybrid design options available
- Armored designs available
- Provides for greater pulling distances, reducing installation time

TECHNICAL DATA — PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
2	OPD002	0.400	10.2	54	81	6.0	15.2	4.0	10.2	400	1779	120	534
4	OPD004	0.400	10.2	55	81	6.0	15.2	4.0	10.2	400	1779	120	534
6	OPD006	0.400	10.2	55	81	6.0	15.2	4.0	10.2	400	1779	120	534
8	OPD008	0.400	10.2	56	84	6.0	15.2	4.0	10.2	400	1779	120	534
12	OPD012	0.400	10.2	57	84	6.0	15.2	4.0	10.2	400	1779	120	534
24	OPDD12B024	0.451	11.5	59	88	6.8	17.2	4.5	11.5	600	2670	180	800
36	OPDD12B036	0.451	11.5	62	93	6.8	17.2	4.5	11.5	600	2670	180	800
48	OPDD12B048	0.451	11.5	65	97	6.8	17.2	4.5	11.5	600	2670	180	800
72	OPDD12B072	0.489	12.4	82	122	7.3	18.6	4.9	12.4	600	2670	180	800
96	OPDD12B096	0.565	14.4	106	158	8.5	21.5	5.7	14.4	800	3560	240	1068
144	OPDD12B144	0.716	18.2	169	252	10.7	27.3	7.2	18.2	1000	4445	300	1335
216	OPDD12B216	0.740	18.8	178	265	11.1	28.2	7.4	18.8	1000	4445	300	1335
432	OPDD12B432	0.991	25.2	316	471	14.9	37.8	9.9	25.2	1000	4445	300	1335

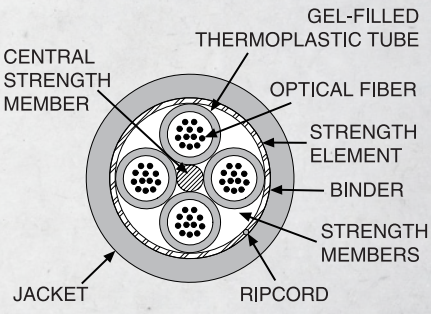
This is a representative part number listing. For part number details, refer to page 69.

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Outside Plant

Designed for installation in harsh environments such as direct burial, aerial lashing, conduits and pathways that are subjected to wide temperature variations.

ARMORED OPTION AVAILABLE



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

OUTDOOR CONSIDERATIONS

Berk-Tek recommends loose tube cables for outside plant installations, especially if aerially lashed or if the interbuilding conduit system is above the frost line and likely to fill with water.

STANDARDS

North American	Telcordia GR-20 ANSI/ICEA S-87-640
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Water-blocked color-coded loose tubes containing up to 12, 250 µm, individually colored fibers. Fiber counts 12 and below use two dieletric strength members parallel to the loose tube. Fiber counts over 12 use a dielectric strength member. Water-blocking strength yarns are covered by a polyethylene jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Outside Plant Dry Loose Tube

TEMPERATURE RATING	
	LTD-M2
Operation	-60°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +70°C
Sample Part Number: LTD12B072AB0302-M2	

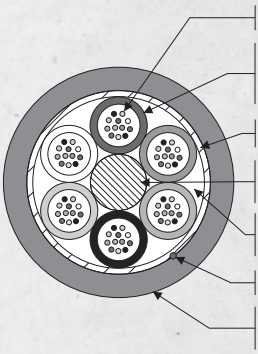
Outdoor, duct, or aerial lashed | Up to 288 fibers | Available with double jacket

- Suitable for outside plant, in conduit, aerial lashing and cable tray installations
- Fully water-blocked cable using dry water-blocking technology
- Corrugated steel armor available for rodent resistance and direct buried installation
- High tensile strength, crush-resistant and small-diameter design
- Single-mode, multimode and hybrid design options available
- Provides for greater pulling distances, reducing installation time

TECHNICAL DATA – PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
12	LTD12B012-M2	0.39	9.9	42	62	5.9	14.9	3.9	9.9	600	2700	180	800
24	LTD12B024-M2	0.39	9.9	42	62	5.9	14.9	3.9	9.9	600	2700	180	800
36	LTD12B036-M2	0.39	9.9	42	62	5.9	14.9	3.9	9.9	600	2700	180	800
48	LTD12B048-M2	0.39	9.9	42	62	5.9	14.9	3.9	9.9	600	2700	180	800
72	LTD12B072-M2	0.41	10.5	48	72	6.2	15.8	4.1	10.5	600	2700	180	800
96	LTD12B096-M2	0.48	12.3	65	96	7.2	18.5	4.8	12.3	600	2700	180	800
120	LTD12B120-M2	0.55	13.9	85	126	8.3	20.9	5.5	13.9	600	2700	180	800
144	LTD12B144-M2	0.62	15.7	107	159	9.3	23.6	6.2	15.7	600	2700	180	800
216	LTD12B216-M2	0.61	15.5	90	134	9.2	23.3	6.1	15.5	600	2700	180	800
240	LTD12B240-M2	0.64	16.3	102	152	9.6	24.5	6.4	16.3	600	2700	180	800
288	LTD12B288-M2	0.71	18.0	126	187	10.7	27.0	7.1	18.0	600	2700	180	800

Outside Plant Dry Loose Tube

Dry core, designed for installation in outdoor environments such as aerial lashed, conduits and pathways that are subjected to wide temperature variations.



LSZH OPTION AVAILABLE

ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-20 ANSI/ICEA S-87-640
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Water-blocked color-coded loose tubes containing up to 12, 250 mm, individually colored fibers. A dielectric central member is surrounded by loose tubes, water-blocking strength yarns, and a polyethylene jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Outside Plant Dry Loose Tube Armored

TEMPERATURE RATING	
	LTAD-M2
Operation	-60°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +70°C
Sample Part Number: LTAD12B072FB3010/F5-1A2J-M2	

Outdoor, direct burial | Up to 288 fibers | Available with 1-2 corrugated steel armor layers, 1-3 jackets

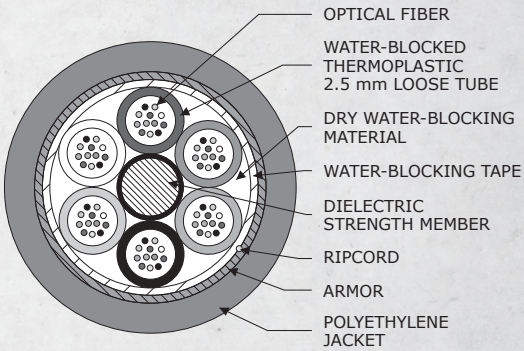
- Recommended for outside plant, in conduit, direct burial and cable tray installations
- Fully water-blocked cable using dry water-blocking technology
- Corrugated steel armor provides rodent resistance
- High tensile strength, crush-resistant design
- Single-mode, multimode and hybrid design options available
- Provides for greater pulling distances, reducing installation time

TECHNICAL DATA – PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
2	LTAD12B002-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2660	200	890
4	LTAD12B004-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2660	200	890
6	LTAD12B006-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
8	LTAD12B008-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
12	LTAD12B012-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
24	LTAD12B024-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
36	LTAD12B036-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
48	LTAD12B048-1A1J-M2	0.46	11.6	75	111	6.9	17.4	4.6	11.6	600	2700	180	800
72	LTAD12B072-1A1J-M2	0.48	12.3	87	129	7.3	18.5	4.8	12.3	600	2700	180	800
96	LTAD12B096-1A1J-M2	0.55	14.0	105	157	8.3	21.0	5.5	14.0	600	2700	180	800
120	LTAD12B120-1A1J-M2	0.62	15.7	136	203	9.3	23.6	6.2	15.7	600	2700	180	800
144	LTAD12B144-1A1J-M2	0.69	17.6	163	243	10.4	26.4	6.9	17.6	600	2700	180	800
216	LTAD12B216-1A1J-M2	0.68	17.3	144	215	10.2	26.0	6.8	17.3	600	2700	180	800
240	LTAD12B240-1A1J-M2	0.71	18.1	161	239	10.7	27.2	7.1	18.1	600	2700	180	800
288	LTAD12B288-1A1J-M2	0.78	19.9	192	286	11.7	29.9	7.8	19.9	600	2700	180	800

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Outside Plant Dry Loose Tube Armored

Armored dry core, designed for installation in demanding outdoor environments such as direct burial, conduits and pathways that are subjected to wide temperature variations.



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

North American	Telcordia GR-20 ANSI/ICEA S-87-640
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Gel-filled tubes containing 250 µm fibers, in up to 12 colors. 24 fiber tubes contain two 12-fiber bundles.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Data Center Loose Tube

Plenum Rated

TEMPERATURE RATING	
	DAP
Operation	0°C to +75°C
Storage	-40°C to +75°C
Installation	0°C to +60°C
Sample Part Number: DAP12B144AB0403	

FLAME RATING	
Plenum	OFNP/FT6

Plenum indoor duct | 288 fibers maximum with either 8F or 12F subunits

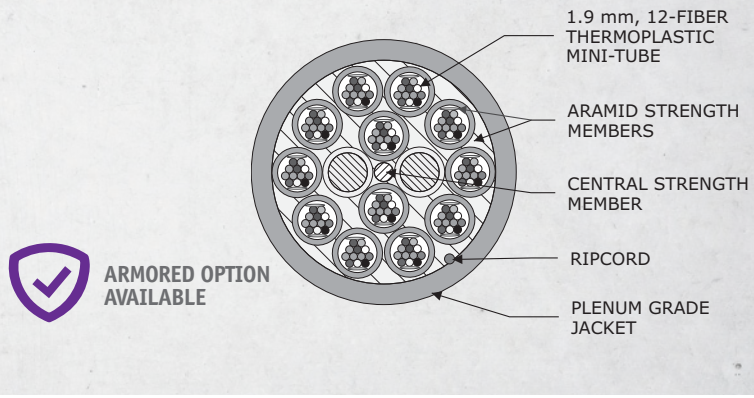
- 1.9 mm space-saving buffer tubes house fibers and aramid strength yarns
- Smallest cable diameter for maximum density applications
- High density, all dielectric design
- Single-mode, multimode and hybrid designs available
- Suitable for conduit or in-tray applications
- System grounding requirements are eliminated
- Available with Armor-Tek™ Interlocking Armor
- Compact, plenum rated, flexible loose tube design of all dielectric construction allows for installation in any interior space
- Optimized access ease with simple, off-the-shelf tools
- No cleaning of gels required for installation, greatly reducing installation time and cost

TECHNICAL DATA – PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
1-12	DAP001-012	0.074	1.9	3	4	1.1	2.8	0.7	1.9	25	111	8	36
12	DAP012-2J	0.177	4.5	13	18	2.7	6.7	1.8	4.5	150	667	45	200
24	DAP12B024Twinax	0.118 x 0.184	3.0 x 4.7	13	20	0.0	7.1	0.0	4.7	150	667	45	200
24	DAP12B024	0.212	5.4	19	29	3.2	8.1	2.1	5.4	150	667	45	200
36	DAP12B036	0.212	5.4	19	29	3.2	8.1	2.1	5.4	150	667	45	200
48	DAP12B048	0.212	5.4	19	29	3.2	8.1	2.1	5.4	150	667	45	200
72	DAP12B072	0.261	6.6	31	47	3.9	9.9	2.6	6.6	315	1401	95	423
96	DAP12B096	0.318	8.1	38	57	4.8	12.1	3.2	8.1	315	1401	95	423
144	DAP12B144	0.376	9.6	57	84	5.6	14.3	3.8	9.6	630	2802	190	845
288	DAP12B288-2J	0.605	15.4	185	275	9.1	23.1	6.1	15.4	1000	4448	300	1335

Data Center Loose Tube

Plenum Rated

Revolutionary Datacenter Plenum cables with 1.9 mm micro buffer tubes, designed to be used in high density plenum rated environments.



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

STANDARDS

International	EN 50173 ISO/IEC 11801
National	ANSI/ICEA S-83-596 ANSI/TIA-568.3-D NFPA 130 Telcordia GR-409

CONSTRUCTION

Dry color coded loose tubes containing 250 µm, individually colored fibers.

DAP						Min. Bend Radius				Max. Loading			
Fibers	Product Prefix	Diameter		Weight		Install.		Long Term		Install.		Long Term	
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
1-8	DAP001-008	0.074	1.9	2	3	1.1	2.8	0.7	1.9	9	40	3	13
16	DAP8B016	0.212	5.4	19	29	3.2	8.1	2.1	5.4	266	1183	80	356
24	DAP8B024	0.212	5.4	19	29	3.2	8.1	2.1	5.4	266	1183	80	356
32	DAP8B032	0.212	5.4	20	30	3.2	8.1	2.1	5.4	266	1183	80	356
48	DAP8B048	0.261	6.6	28	42	3.9	9.9	2.6	6.6	266	1183	80	356
64	DAP8B064	0.318	8.1	44	66	4.8	12.1	3.2	8.1	266	1183	80	356
72	DAP8B072	0.352	9.0	54	81	5.3	13.4	3.5	9.0	266	1183	80	356
96	DAP8B096	0.376	9.6	49	73	5.6	14.3	3.8	9.6	300	1335	90	400
144	DAP8B144	0.435	11.0	81	120	6.5	16.6	4.4	11.0	550	2447	165	734
192	DAP8B192	0.505	12.8	101	150	7.6	19.2	5.1	12.8	730	3248	219	975
288	DAP8B288	0.625	15.9	158	236	9.4	23.8	6.3	15.9	730	3248	219	975

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Central Tube Ribbon

Plenum Rated

TEMPERATURE RATING	
	RDP
Operation	0°C to +70°C
Storage	-40°C to +70°C
Installation	0°C to +60°C
Sample Part Number: RDP24B432AB0403-M4	

FLAME RATING	
Plenum	OFNP/FT6

Indoor | Up to 432 fibers | Plenum dry central tube ribbon design

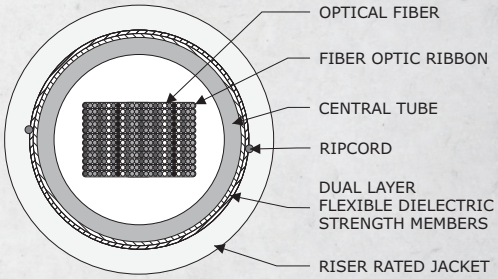
- Ribbons utilize a peelable protective UV cured acrylate coating
- Ribbons are easily separated for single fiber splicing if needed
- Easily interfaced to MT and MPO based connectors, as well as today's newest ribbon connectors
- Single-mode and multimode fiber designs available
- Two layers of flexible strength members
- Cable design offers excellent mechanical performance with superior crush and flex ratings
- Mass fusion splicing ribbon cable enables faster project completion and reduced labor costs
- A single fiber holder can also be used in the mass splicer; no need to worry about multiple machines if a mass splicer is on hand

TECHNICAL DATA – PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
12	RDP12B012-M4	0.44	11.3	86	128	4.4	11.3	8.8	22.6	300	1340	100	450
48	RDP12B048-M4	0.44	11.3	86	128	4.4	11.3	8.8	22.6	300	1340	100	450
72	RDP12B072-M4	0.55	14.0	129	192	5.5	14.0	11.0	28.0	300	1340	100	450
96	RDP12B096-M4	0.55	14.0	129	192	5.5	14.0	11.0	28.0	300	1340	100	450
144	RDP12B144-M4	0.65	16.6	173	257	6.5	16.6	13.0	33.2	300	1340	100	450
216	RDP12B216-M4	0.65	16.6	173	257	6.5	16.6	13.0	33.2	300	1340	100	450
288	RDP24B288-M4	0.85	21.6	263	392	8.5	21.6	17.0	43.2	300	1340	100	450
432	RDP24B432-M4	0.85	21.6	263	392	8.5	21.6	17.0	43.2	300	1340	100	450

Central Tube Ribbon

Plenum Rated

Berk-Tek's plenum-rated optical fiber ribbon cable uses 12 or 24 fiber ribbons, in a dry central tube, surrounded by dielectric strength members and a plenum-rated outer jacket.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

CONSTRUCTION

Fiber optic ribbon is comprised of 12 or 24 fibers coated with a dual acrylate and contained in a peelable UV curable matrix material. The ribbon structure is designed to allow easy separation of the fibers from the matrix in preparation for splicing, or termination to a MPO connector. Ribbons are stacked in a dry central tube, surrounded by two layers of flexible strength members and an extruded cable jacket, providing tensile strength and crush resistance. The outer jacket material is plenum-grade thermoplastic.

STANDARDS

International	EN 50173 ISO/IEC 11801
National	ANSI/ICEA S-83-596 ANSI/TIA-568.3-D

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Central Tube Ribbon

Riser Rated

TEMPERATURE RATING	
	RDR
Operation	-20°C to +70°C
Storage	-40°C to +70°C
Installation	-10°C to +60°C
Sample Part Number: RDR24B432AB0403-M4	

FLAME RATING	
Riser	OFNR/FT4

Indoor | Up to 432 fibers | Riser dry central tube ribbon design

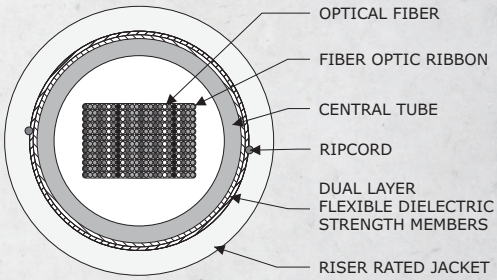
- Ribbons utilize a peelable protective UV cured acrylate coating
- Ribbons are easily separated for single fiber splicing if needed
- Easily interfaced to MT and MPO based connectors, as well as today's newest ribbon connectors
- Single-mode and multimode fiber designs available
- Two layers of flexible strength members
- Cable design offers excellent mechanical performance with superior crush and flex ratings
- Mass fusion splicing ribbon cable enables faster project completion and reduced labor costs
- A single fiber holder can also be used in the mass splicer; no need to worry about multiple machines if a mass splicer is on hand

TECHNICAL DATA – PHYSICAL						Install.		Long Term		Install.		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
12	RDR12B012-M4	0.52	13.2	102	151	5.2	13.2	10.4	26.4	600	2700	200	890
48	RDR12B048-M4	0.52	13.2	102	151	5.2	13.2	10.4	26.4	600	2700	200	890
72	RDR12B072-M4	0.52	13.2	102	151	5.2	13.2	10.4	26.4	600	2700	200	890
96	RDR12B096-M4	0.52	13.2	102	151	5.2	13.2	10.4	26.4	600	2700	200	890
144	RDR12B144-M4	0.62	15.7	128	190	6.2	15.7	12.4	31.4	600	2700	200	890
216	RDR12B216-M4	0.62	15.7	128	190	6.2	15.7	12.4	31.4	600	2700	200	890
288	RDR24B288-M4	0.81	20.5	210	313	8.1	20.5	16.2	41.0	600	2700	200	890
432	RDR24B432-M4	0.81	20.5	210	313	8.1	20.5	16.2	41.0	600	2700	200	890

Central Tube Ribbon

Riser Rated

Berk-Tek's riser-rated optical fiber ribbon cable uses 12 or 24 fiber ribbons, in a dry central tube, surrounded by dielectric strength members and a riser-rated outer jacket.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

CONSTRUCTION

Fiber optic ribbon is comprised of 12 or 24 fibers coated with a dual acrylate and contained in a peelable UV curable matrix material. The ribbon structure is designed to allow easy separation of the fibers from the matrix in preparation for splicing, or termination to a MPO connector. Ribbons are stacked in a dry central tube, surrounded by two layers of flexible strength members and an extruded cable jacket, providing tensile strength and crush resistance. The outer jacket material is riser-grade thermoplastic.

STANDARDS

International	EN 50173 ISO/IEC 11801
National	ANSI/ICEA S-83-596 ANSI/TIA-568.3-D

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0302	Standard for Loose Tube	SMF	1310/1550	0.3/0.2	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Armor-Tek™

Interlock Armor

TEMPERATURE RATING	
Operation	-40°C to +75°C
Storage	-60°C to +85°C
Installation	-30°C to +60°C
Sample Part Number: LTPK012FB3010/F5	

FLAME RATING	
Plenum	OFCP/FT6
Riser	OFCR/FT4

Replaces innerduct | Up to 432 fibers | Plenum, riser or low-smoke zero-halogen (LSZH)

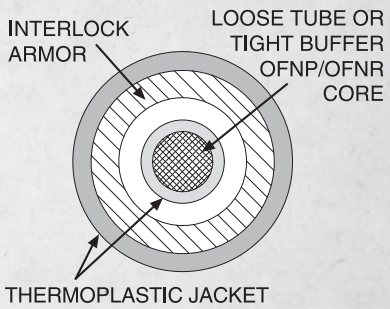
- Jacketed armor that remains flexible due to the spiral wrap armoring process
- Easy one-pull installation into any environment
- Available in aluminum armor
- Compact outside diameters when compared to plenum innerduct or conduit
- Available in tight buffer or loose tube and composite copper and fiber designs
- Aluminum interlock offers 4 to 8 times the crush resistance of a standard dielectric fiber cable (steel, 5 to 10 times)
- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor – up to 25%
- Suitable for hazardous environments or difficult installations
- Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- Can be installed in campus environments due to the durability and indoor/outdoor rating of the cable
- Rugged armoring materials provide additional security for your fiber backbone
- Suitable for tray installations

Note: Armored cable installed in an outdoor environment should be bonded when passing into an indoor environment.

Armor-Tek™

Interlock Armor

Armor-Tek fiber cables can be used in any of the following installation environments: indoor, indoor/outdoor, building and campus backbones, and industrial.



LSZH OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF; I/O ONLY): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

STANDARDS

North American	ANSI/TIA/EIA-568.3 ANSI/ICEA S-87-640 ANSI/ICEA S-83-596 Telcordia GR-409
European	EN 50173
International	ISO/IEC 11801

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Armor-Tek™

Interlock Armor

TEMPERATURE RATING		
	PDPK & PDRK	LTPK & LTRK
Operation	-20°C to +75°C	-40°C to +75°C
Storage	-40°C to +85°C	-60°C to +85°C
Installation	0°C to +75°C	-20°C to +60°C
Sample Part Number: LTPK006FB3010/F5		

FLAME RATING	
Plenum	OFCP/FT6
Riser	OFCR/FT4

PREMISES DISTRIBUTION: PLENUM (OFCP)						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
6	PDPK006	0.495	12.6	78	116	7.4	18.9	5.0	12.6	100	445	30	133
12	PDPK012	0.523	13.3	87	129	7.8	19.9	5.2	13.3	100	445	30	133
18	PDPK018	0.584	14.8	111	166	8.8	22.3	5.8	14.8	150	667	45	200
24	PDPK024	0.584	14.8	123	183	8.8	22.3	5.8	14.8	150	667	45	200
36	PDPK12B036	0.821	20.9	233	347	12.3	31.3	8.2	20.9	300	1335	90	400
48	PDPK12B048	0.921	23.4	274	408	13.8	35.1	9.2	23.4	600	2640	180	800
72	PDPK12B072	0.974	24.7	361	537	14.6	37.1	9.7	24.7	600	2640	180	800
96	PDPK12B096	1.225	31.1	503	749	18.4	46.7	12.3	31.1	600	2640	180	800
120	PDPK12B120	1.225	31.1	492	732	18.4	46.7	12.3	31.1	1000	4445	300	1335
144	PDPK12B144	1.225	31.1	508	756	18.4	46.7	12.3	31.1	1000	4445	300	1335

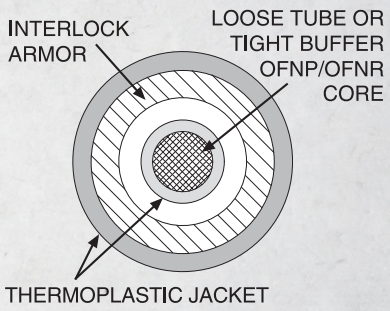
ADVENTUM INDOOR/OUTDOOR LOOSE TUBE: PLENUM (OFCP)						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	LTPK006	0.620	15.7	136	202	9.3	23.6	6.2	15.7	300	1335	90	400
12	LTPK012	0.620	15.7	136	202	9.3	23.6	6.2	15.7	300	1335	90	400
24	LTPK12B024	0.730	18.5	184	274	11.0	27.8	7.3	18.5	600	2670	200	890
36	LTPK12B036	0.730	18.5	184	274	11.0	27.8	7.3	18.5	600	2670	200	890
48	LTPK12B048	0.730	18.5	185	275	11.0	27.8	7.3	18.5	600	2670	200	890
60	LTPK12B060	0.774	19.7	220	327	11.6	29.5	7.7	19.7	600	2670	200	890
72	LTPK12B072	0.774	19.7	220	327	11.6	29.5	7.7	19.7	600	2670	200	890
84	LTPK12B084	0.851	21.6	228	339	12.8	32.4	8.5	21.6	600	2670	200	890
96	LTPK12B096	0.851	21.6	247	368	12.8	32.4	8.5	21.6	600	2670	200	890
108	LTPK12B108	0.951	24.2	281	418	14.3	36.2	9.5	24.2	600	2670	200	890
120	LTPK12B120	0.951	24.2	304	452	14.3	36.2	9.5	24.2	600	2670	200	890
132	LTPK12B132	1.004	25.5	332	494	15.1	38.3	10.0	25.5	600	2670	200	890
144	LTPK12B144	1.004	25.5	359	535	15.1	38.3	10.0	25.5	1000	4448	300	1335
216	LTPK12B216	1.004	25.5	331	493	15.1	38.3	10.0	25.5	1000	4448	300	1335
288	LTPK12B288	1.148	29.2	538	801	17.2	43.7	11.5	29.2	1000	4448	300	1335
432	LTPK12B432	1.283	32.9	644	958	19.4	49.3	13.0	32.9	1000	4448	300	1335

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Armor-Tek™

Interlock Armor

Armor-Tek Physical Data: Available in Premises Distibution or Indoor/Outdoor Loose Tube, Riser and Plenum Rated.



PREMISES DISTRIBUTION: RISER (OFCR)						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
6	PDRK006	0.624	15.8	120	179	9.4	23.8	6.2	15.8	150	667	45	200
12	PDRK012	0.624	15.8	126	188	9.4	23.8	6.2	15.8	150	667	45	200
18	PDRK018	0.624	15.8	134	199	9.4	23.8	6.2	15.8	150	667	45	200
24	PDRK024	0.690	17.5	166	248	10.4	26.3	6.9	17.5	150	667	45	200
36	PDRK12B036	0.961	24.4	277	412	14.4	36.6	9.6	24.4	150	667	45	200
48	PDRK12B048	0.961	24.4	301	448	14.4	36.6	9.6	24.4	150	2670	180	800
72	PDRK12B072	1.080	27.4	397	591	16.2	41.1	10.8	27.4	600	2670	180	800
96	PDRK12B096	1.265	32.1	521	775	19.0	48.2	12.7	32.1	600	2670	180	800
120	PDRK12B120	1.265	32.1	524	780	19.0	48.2	12.7	32.1	1000	4445	300	1335
144	PDRK12B144	1.265	32.1	539	802	19.0	48.2	12.7	32.1	1000	4445	300	1335

ADVENTUM INDOOR/OUTDOOR LOOSE TUBE: PLENUM (OFCP)						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	LTRK006	0.636	16.2	138	205	9.5	24.2	6.4	16.2	300	1335	90	400
12	LTRK012	0.636	16.2	138	205	9.5	24.2	6.4	16.2	300	1335	90	400
24	LTRK12B024	0.744	18.9	186	277	11.2	28.3	7.4	18.9	600	2670	200	890
36	LTRK12B036	0.744	18.9	187	278	11.2	28.3	7.4	18.9	600	2670	200	890
48	LTRK12B048	0.744	18.9	187	279	11.2	28.3	7.4	18.9	600	2670	200	890
60	LTRK12B060	0.865	22.0	232	346	13.0	33.0	8.7	22.0	600	2670	200	890
72	LTRK12B072	0.865	22.0	232	345	13.0	33.0	8.7	22.0	600	2670	200	890
84	LTRK12B084	0.865	22.0	243	361	13.0	33.0	8.7	22.0	600	2670	200	890
96	LTRK12B096	0.965	24.5	276	411	14.5	36.8	9.7	24.5	600	2670	200	890
108	LTRK12B108	0.965	24.5	292	435	14.5	36.8	9.7	24.5	600	2670	200	890
120	LTRK12B120	1.018	25.9	326	486	15.3	38.8	10.2	25.9	600	2670	200	890
132	LTRK12B132	1.018	25.9	348	518	15.3	38.8	10.2	25.9	600	2670	200	890
144	LTRK12B144	1.018	25.9	360	536	15.3	38.8	10.2	25.9	1000	4448	300	1335
216	LTRK12B216	1.018	25.9	350	521	15.3	38.8	10.2	25.9	1000	4448	300	1335
288	LTRK12B288	1.134	28.8	450	670	17.0	43.2	11.3	28.8	1000	4448	300	1335
432	LTRK12B432	1.269	32.2	533	793	19.0	48.3	12.7	32.2	1000	4448	300	1335

RoHS COMPLIANT

Indoor/Outdoor CL3P-OF

Plenum Rated

TEMPERATURE RATING		
	ACPC	HDPC
Operation	-40°C to +75°C	-40°C to +75°C
Storage	-60°C to +85°C	-40°C to +85°C
Installation	-20°C to +60°C	-10°C to +70°C
Sample Part Number: HDPC002EB3010/25-002x12AWG		

FLAME RATING	
Plenum	NFPA 262, CMP

Security camera cable | Multiple fibers | Indoor/outdoor | DAS Connections

- Superior composite cable design combines optical fiber bandwidth with power for IP cameras or media converter via power conductors
- Available with up to 12 fibers and 4 conductors
- CL3P/PLTC-OF, wet and dry rated
- Multimode, Single-mode, and GIGAlite™ fibers
- Indoor/Outdoor dry water-blocked designs
- Enables PoE equipment to be located more than 100 meters from the switch
- Cost savings versus installation of a new electrical outlet
- CL3P-OF/PLTC-OF allows cable to be installed in communication pathways, trays, and conduits
- Ease of installation
- Aluminum armored designs available
- Armor option adds crush resistance and is a cost effective alternative to plenum innerduct
- Broad design selection allows for mix and match of copper and fiber components to specific networking applications
- Immune to EMR/RFI

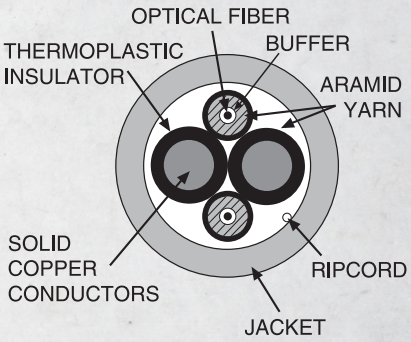
PLENUM (CL3P & CMP) RATED TECHNICAL DATA — PHYSICAL						Min. Bend Radius				PoE		PoE+	
Fibers	Part Number Prefix	Diameter		Weight		Install.		Long Term		Install.		Long Term	
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	ft.	m	ft.	m
2	HDPC002-002X12AWG	0.314	8.0	93	138	4.7	12.0	3.1	8.0	6560	1999	1856	566
12	ACPC012-002x12AWG	0.328	8.3	79	118	4.9	12.5	3.3	8.3	6560	1999	1856	566
8	ACPC008-004X12AWG	0.393	10.0	138	205	5.9	15.0	3.9	10.0	3280	1000	980	299
4	ACPC004-002X12AWG	0.328	8.3	79	118	4.9	12.5	3.3	8.3	3280	1000	980	299

This is a representative part number listing. For part number details, refer to page 69.

Indoor/Outdoor CL3P-OF

Plenum Rated

Berk-Tek's CL3P-OF Copper/Fiber cables enable delivery of high bandwidth optical performance to remote devices such as security cameras, access or monitoring devices.



APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

STANDARDS

North American	UL 444, UL 13, Telcordia GR-409 ANSI/TIA-568.3-D ANSI/ICEA S-104-696
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Each cable consists of multiple plenum insulated copper conductors and multiple fibers cabled together within an outer jacket.

TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1300/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Indoor/Outdoor CL3R-OF

Riser Rated

TEMPERATURE RATING		
	ACRC	HDRC
Operation	-40°C to +75°C	-40°C to +75°C
Storage	-60°C to +85°C	-40°C to +85°C
Installation	-20°C to +60°C	-10°C to +70°C
Sample Part Number: HDRC002EB3010/25-002x12AWG		

FLAME RATING	
Riser	UL1666, CMR

Security camera cable | Multiple fibers | Indoor/outdoor | TFFN or THWN conductors | DAS Connections

- Superior composite cable design combines optical fiber bandwidth with power for IP cameras or media converter via power conductors
- Available with up to 12 fibers and 8 conductors
- CL3R/PLTC-OF, wet and dry rated
- Multimode, Single-mode, and GIGAlite™ fibers
- Indoor/Outdoor dry water-blocked designs
- Enables PoE equipment to be located more than 100 meters from the switch
- Cost savings versus installation of a new electrical outlet
- CL3R-OF/PLTC-OF allows cable to be installed in communication pathways, trays, and conduits
- Ease of installation
- Aluminum armored designs available
- Armor option adds crush resistance and is a cost effective alternative to plenum innerduct
- Broad design selection allows for mix and match of copper and fiber components to specific networking applications
- Immune to EMR/RFI

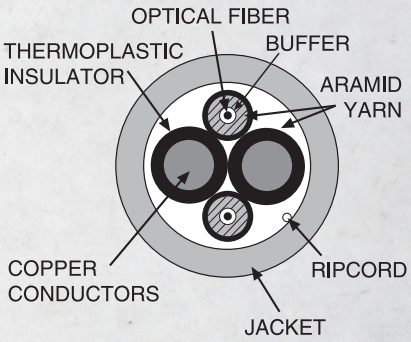
PLENUM (CL3P & CMP) RATED TECHNICAL DATA — PHYSICAL						Min. Bend Radius				PoE		PoE+	
Fibers	Part Number Prefix	Diameter		Weight		Install.		Long Term		Install.		Long Term	
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	ft.	m	ft.	m
2	HDRC002-002X12AWG	0.340	8.6	93	138	5.1	13.0	3.4	8.6	6560	1999	1856	566
12	ACRC012-002X12AWG	0.375	9.5	87	129	5.6	14.3	3.8	9.5	6560	1999	1856	566
8	ACRC008-004X12AWG	0.480	12.2	159	237	7.2	18.3	4.8	12.2	3280	1000	980	299
4	ACRC004-002X12AWG	0.375	9.5	86	128	5.6	14.3	3.8	9.5	3280	1000	980	299

This is a representative part number listing. For part number details, refer to page 69.

Indoor/Outdoor CL3R-OF

Riser Rated

Berk-Tek's CL3R-OF Copper/Fiber cables enable delivery of high bandwidth optical performance to remote devices such as security cameras, access or monitoring devices.



ARMORED OPTION AVAILABLE

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

STANDARDS

North American	UL 444, UL 13, Telcordia GR-409 ANSI/ICEA S-104-696
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Each cable consists of multiple TFFN or THWN copper conductors and multiple fibers cabled together within an outer jacket. Cable design accommodates from 1 to 8 conductors and 1 to 12 fibers.

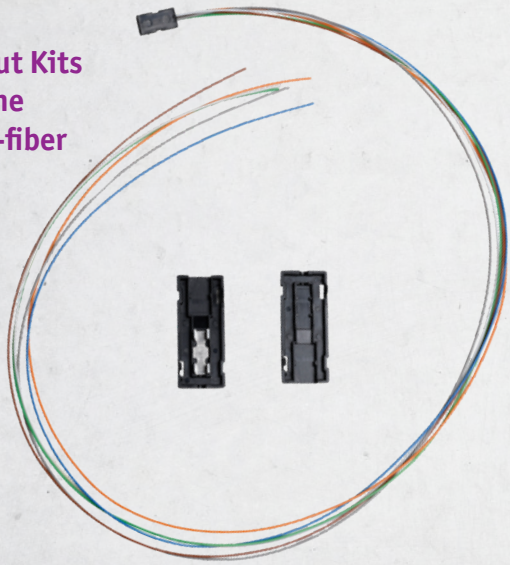
TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	AB0707	Standard for Tight Buffer	SMF	1300/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Buffer Tube Breakout Kits

Berk-Tek's Buffer Tube Breakout Kits are specifically designed for the termination of 6-fiber and 12-fiber loose tube cables.



24" or 36" options | Available with 6 or 12 tubes | One kit needed for each end of a terminated tube

- Breakout tubing
- New snap-together unit eliminates need for epoxy
- Compact design
- Quick and easy-to-install
- Optimized for field termination of loose tube cables
- Terminates 2.4 mm and 3.0 mm buffer tubes
- Excellent fiber routing capabilities
- Bend radius protection designed into each unit

BUFFER TUBE BREAKOUT KITS		
Part Number	Diameter	Weight
10033624	24 inches	12
10033625	36 inches	12
10033626	24 inches	6
10033627	36 inches	6

This is a representative part number listing. For part number details, refer to page 69.

Ribbon Breakout Kits

Berk-Tek's Ribbon Break-out Kits are specifically designed to transition optical fiber ribbons to color-coded jacketed furcation tubes allowing for termination on-site.

31" furcation tubing | Terminates MPO connector directly to source ribbon | RoHS compliant

- Color-coded furcation tubes for ribbon sequence identification
- Achieves exact length cable builds on-site in real-time without the risk of shorts and excess slack
- Furcation tubing contains aramid yarns
- Protects bare fiber optic ribbon
- Cuts time, material, and labor costs

BUFFER TUBE BREAKOUT KITS	
Part Number	**Product Description**
11101879	BO12-RIBBON BREAKOUT KIT-M4
11101880	BO24-RIBBON BREAKOUT KIT-M4
11101881	BO36-RIBBON BREAKOUT KIT-M4
11101882	BO48-RIBBON BREAKOUT KIT-M4
11101883	BO60-RIBBON BREAKOUT KIT-M4
11101884	BO72-RIBBON BREAKOUT KIT-M4
11101885	BO96-RIBBON BREAKOUT KIT-M4
11101886	BO144-RIBBON BREAKOUT KIT-M4
11102222	BO288-RIBBON BREAKOUT KIT-M4

This is a representative part number listing. For part number details, refer to page 69.

RoHS COMPLIANT

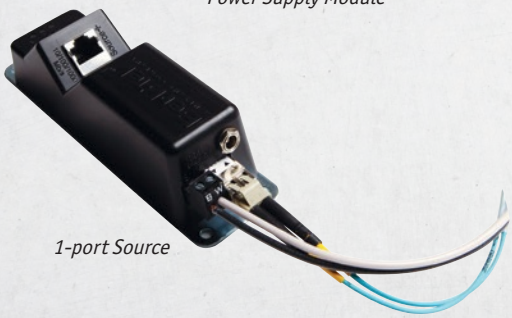
LEARN MORE ABOUT EXTENDING PoE

OneReach PoE Extender System

Head End Devices for Power Injection (PI)

Power Supply Module

Media Module



1-port Source

Power one device or many | Standalone 1-port source | 2U or 4U Injector Chassis | Fits standard 19" rack

- Simplifies device management
- Enables UPS consolidation
- Uses simple screw terminal connections
- Supports PoE, PoE+ and HPoE
- No PoE enabled switch required

Part Number	Description	Slots	Quantity of Supported PoE Powered Devices			Operating Temp. (°C)
			PoE ports	PoE+ ports	HPoE ports	
81000960	1-Port Source,1000BASE-LX, High PoE (60 W), LC duplex, SMF, Ext AC Power Supply	N/A	1	1	1	-40 to +50
81000546	1-port Source, 1000BASE-SX, LC duplex, MMF, Ext AC Power Supply	N/A	1	1	1	-40 to +50
81000380	1-port Source, 1000BASE-SX, LC duplex, MMF, Ext AC Power Supply	N/A	1	1	1	0 to +40
81000217	1-port Source, 100BASE-FX, LC duplex, MMF, Ext AC Power Supply	N/A	1	1	1	0 to +40
81000577	1-port Source, 100BASE-FX, LC duplex, MMF, Ext AC Power Supply	N/A	1	N/A	N/A	0 to +40
81000432	1-port Source, 100BASE-FX, LC duplex, MMF, DIN rail mount	N/A	1	1	1	-40 to +50
81000463	1U Mounting Bracket for two 1-port Sources	N/A	N/A	N/A	N/A	0 to +40
81000215	Power Supply Module, 400W AC in, 12 & 56 VDC out (dual voltage)	2	12	8	4	0 to +40
81000569	2U Chassis, Class 2 Power Output rear terminal blocks, 6 slots	N/A	N/A	N/A	N/A	0 to +40
81000568	4U Chassis, Class 2 Power Output rear terminal blocks, 12 slots	N/A	N/A	N/A	N/A	0 to +40
81000413	Media Module, 4-port, 1000BASE-SX, 4xLC duplex (rear), MMF	1	4	4	4	0 to +40
81000414	Media Module, 4-port, 1000BASE-SX, MTP (rear), MMF	1	4	N/A	N/A	0 to +40
81000584	Media Module, 4-port, 100BASE-FX, 4xLC duplex (rear), MMF	1	4	4	4	0 to +40
81000585	Media Module, 4-port, 100BASE-FX, MTP (rear), MMF	1	4	N/A	N/A	0 to +40
81000190	Blanking Panel for Power Injector Chassis	1	N/A	N/A	N/A	0 to +40

Head End Devices for Power Injection (PI)

With options to power one device or many, the OneReach PI seamlessly becomes a part of the network infrastructure, with 2U or 4U Power Injector Chassis installing in a standard 19" rack.

4U Chassis

STANDARDS

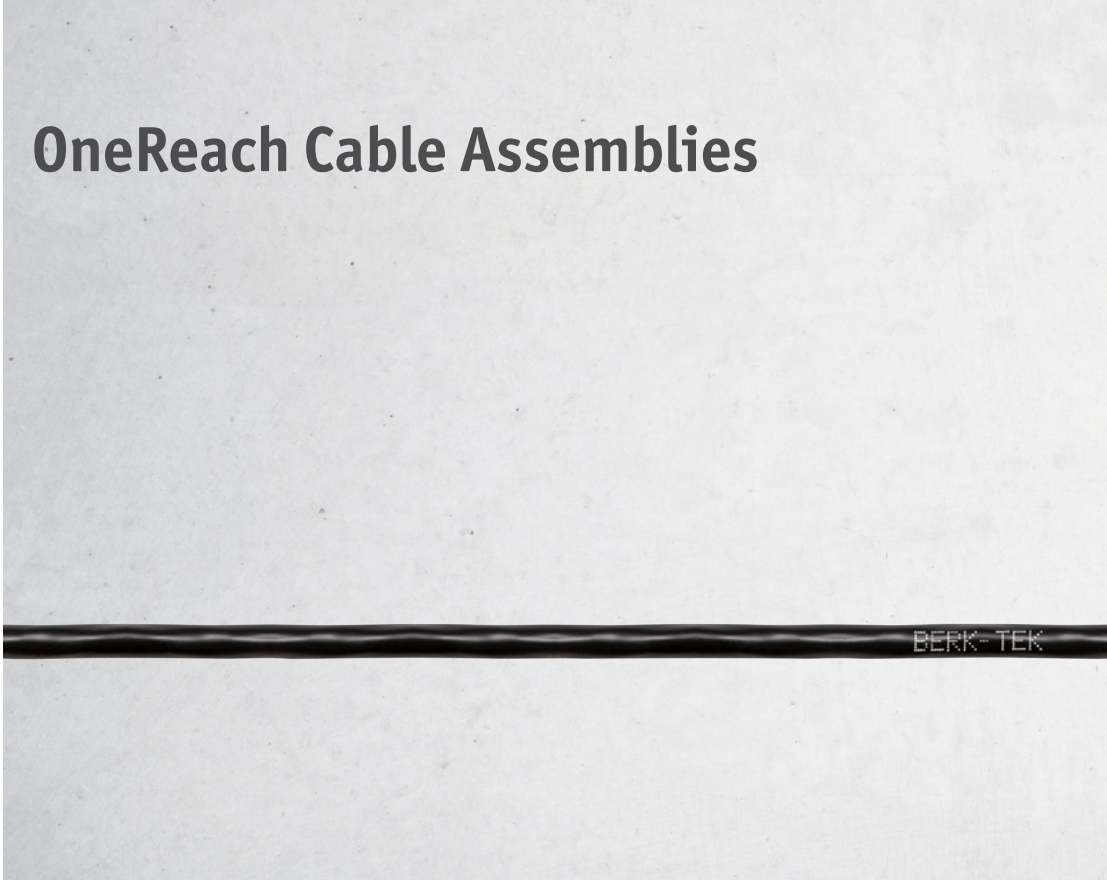
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

The Head End Devices for Power Injection are composed of a specially designed PoE Media Module or 19" rack mountable powered injection chassis and PoE Power Supply Modules. The PI provides both the power to run the system and the technology to transmit the data signals to previously unreachable distances.

RoHS COMPLIANT

OneReach Cable Assemblies



- Simple, single pull installation
- Combines control and communication in industrial pathways
- Provides common pathway for fiber backbone and Class 2 power supply
- Can be used in wet or dry locations
- Designs for indoor, outdoor and indoor/outdoor environments
- Able to support PoE+ distances up to 2,400 ft*

Part Number	Cable Type	Application	# of Fibers	Fiber Type	Conductor Count	Conductor Gauge
BHCR02ADD044FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OS2	2	12
BACR08EDDDD44FFNM8Pxxx, LC both ends	Loose Tube	4-port assembly	8	OM3	4	12
BACR12EDD077NNNM8Pxxx, MTP both ends	Loose Tube	4-port assembly	12	OM3	2	12
BACRK12EDD077NNNM8Pxxx, Interlock Armor, MTP both ends	Loose Tube	4-port assembly	12	OM3	2	12
BACR04EDD044FFNM8Pxxx, LC both ends	Loose Tube	2-port assembly	4	OM3	2	12
BHCP02EDD044FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHCR02EDD044FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHCR02EDD0N4NFNM8Pxxx, LC one end	Tight Buffer	1-port assembly	2	OM3	2	12
BHCR02EDDDD44FFNM8Pxxx, LC both ends	Tight Buffer	1-port assembly	2	OM3	4	12
BHCRK02EDD044FFNM8Pxxx, Interlock Armor, LC both ends	Tight Buffer	1-port assembly	2	OM3	2	12
BHCRK02EDD0N4NFNM8Pxxx, Interlock Armor, LC one end	Tight Buffer	1-port assembly	2	OM3	2	12
11099456	M8 Pigtail	1, 2, 4-port assemblies	0	n/a	2	18
11099453	M8 Pigtail	4-port assembly	0	n/a	4	20

xxx is length of assembly in feet. Contact Berk-Tek Inside Sales at 1-800-BERK-TEK for exact part number and pricing.

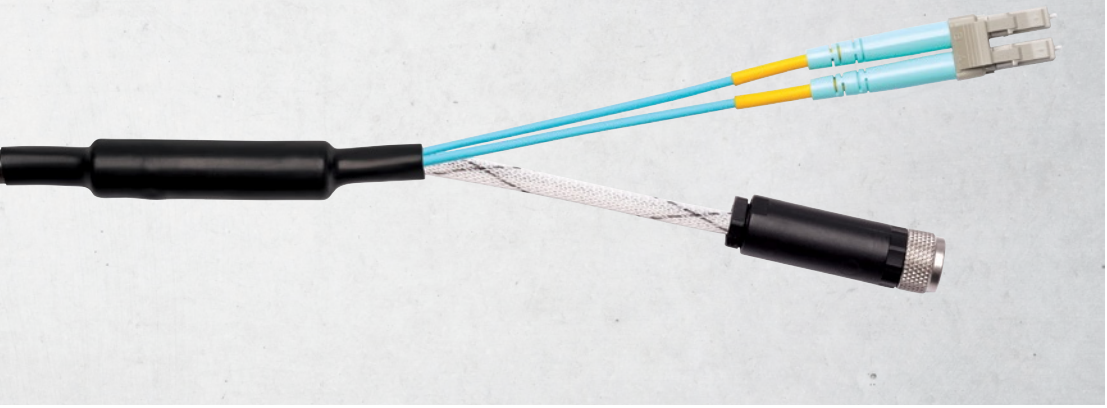
*** Additional cable/assembly configurations are available upon request.*

** This assumes a total of 3,280 ft of OneReach cable assembly (OCA) to the RPP for PoE or 2,100 ft of OCA for PoE+ plus 328 ft of twisted pair to the device at 20°C. For more temperature information, visit OneReachSystem.com.*

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

OneReach Cable Assemblies

The OCA combines optical fiber and copper conductors in a single assembly that easily attaches with standard M8 and LC or MTP® connectors taking PoE+ up to 2,400 feet.*



APPLICATIONS

10/100/1000BASE-T: Copper Ports

100BASE-FX, 1000BASE-SX, 1000BASE-LX: Fiber Ports

STANDARDS

North American	UL 13
European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Power and data transmission are supported within a single jacket through the use of Berk-Tek CL3R-PLTC-OF or CL3P-PLTC-OF rated composite copper/fiber power limited tray cable. These cables combine 12 AWG solid conductors with either tight-buffered or loose tube optical fiber cable designs to support 1- or 4-port remote devices. Assemblies are built to the specific length requirements of each project, and arrive on-site with pre-tested optical fiber connectors and an M8 connector for power on the remote device end, ready to install. The local end of the assembly attaches to the local media module or power injector chassis with standard LC connectors and easy to use screw terminals. Single end termination and field termination options are also available.

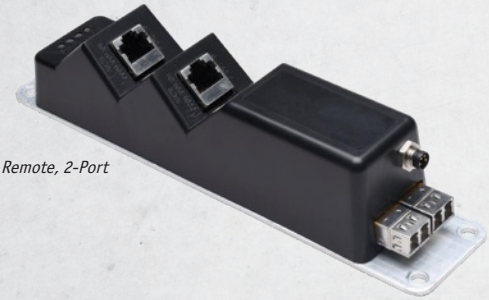
TECHNICAL DATA

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70
Single-Mode - Bend Insensitive - ITU-T G.657.A1							**1 GbE**	**10 GbE**	**40 GbE**	**100 GbE**
OS2	**AB0707**	Standard for Tight Buffer	SMF	1300/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000
OS2	**AB0403**	Standard for Loose Tube	SMF	1300/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

RoHS COMPLIANT

Remote End Devices

Remote, 1-Port



Remote, 2-Port

- No need to install costly remote power outlets
- No need to install remote industrial switches
- Eliminates the need for remote UPS
- Easily attach pre-terminated LC or MTP®† connectors for data transmission
- Standard M8 connector screws into place to complete power circuit
- Uses standard RJ45 connectivity to patch to the security camera, wireless access point or any other IP-based device
- Allows common pathway for fiber backbone and Class 2 power supply

Part Number	Description	Quantity of Supported Powered Devices
81000961	Remote, 1-port, 1000BASE-LX, PoE+ , LC duplex, SMF, RJ45, M8 Power Input	1
81000959	Remote, 1-port, 1000BASE-LX, High PoE (60 W), LC duplex, SMF, RJ45, M8 Power Input	1
81000663	Remote, 1-port, 100BASE-FX, PoE, LC duplex, MMF, RJ45, M8 Power Input	1
81000218	Remote, 1-port, 100BASE-FX, PoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000381	Remote, 1-port, 1000BASE-SX, PoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000462	Remote, 1-port, 100BASE-FX, HPoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000545	Remote, 1-port, 1000BASE-SX, HPoE+, LC duplex, MMF, RJ45, M8 Power Input	1
81000343	Remote, 1-port, 100BASE-FX, PoE+, LC duplex, MMF, RJ45, DIN Rail Mount, M8 Power Input	1
81000773	Remote, 2-port, 1000BASE-SX, PoE+, 2 x LC duplex, MMF, RJ45, M8 Power Input	2
81000586	Remote, 4-port, 1000BASE-SX, PoE, LC duplex, MTP, MMF, RJ45, M8 Power Input	4
81000664	Remote, 4-port, 100BASE-FX, PoE, MTP, MMF, RJ45, M8 Power Input	4
81000684	Remote, 4-port, 1000BASE-SX, PoE+, 4 x LC duplex, MMF, RJ45, M8 Power Input	4

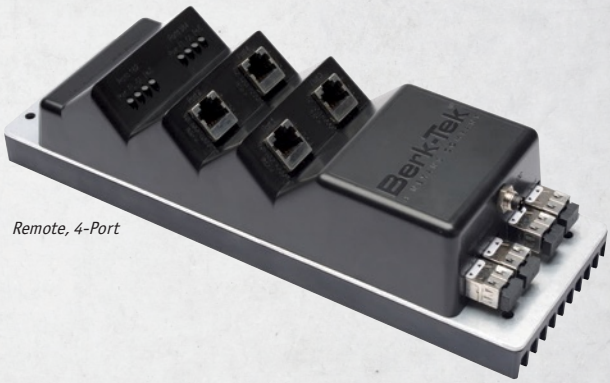
Technical support for the OneReach product can be reached at 1-800-BERK-TEK.

† MTP® is a registered trademark of US Conec.

Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Remote End Devices

Remote devices mount in enclosures and connect to active devices up to 100 meters away using Category cables terminated with standard RJ45 connectors.



Remote, 4-Port

APPLICATIONS

ETHERNET: 10BASE – 400GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)

Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)

SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)

SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)

OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)

CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)

PON (SMF): (RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON)

STANDARDS

European	EN 50173
International	ISO/IEC 11801

CONSTRUCTION

Remote PoE Port (RPP) designed to support one or multiple-devices. Mounts in a standard enclosure and connects IP-based devices with appropriate power requirements using category cables terminated with standard RJ45 connectors.

RoHS COMPLIANT

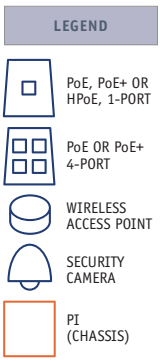
Configurator Examples/Distance Guarantees

Take PoE, PoE+, and HPoE simplicity and gigabit capability to new distances.

GUIDANCE FOR BUILDING YOUR SYSTEM

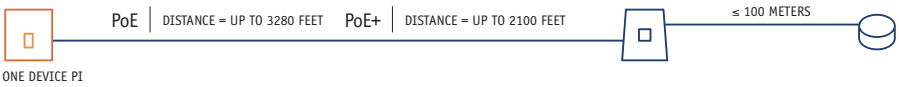
OneReach is modular, allowing you to easily scale the system to meet your specific application requirements. Every application will require devices from each of the system segments; Head End Power Injection (PI), OneReach Cable Assembly (OCA), and Remote PoE Port (RPP). The specific devices will be determined by the number of remote devices to be supported, the distance of the RPP from the closet and the environmental conditions of the installation. Generally, you will have the same quantity of 4-Port Media Modules/1-Port Sources, OCAs and Remote Port devices. The examples below provide guidance on the specifics required for a few common installation options.

Surge protection for remote and devices is built in. However, when installed outside, extra surge protection and grounding is required in areas that are prone to lighting.



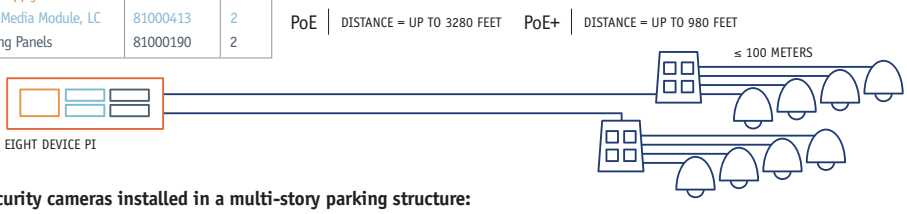
One wireless access point installed in the ceiling:

PI			ONEREACH CABLE ASSEMBLY (xxx = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
1-Port Source	81000380	1	1-Port 12 AWG OCA	BHCR02EDD044FFNM8Pxxx	1	1-Port Remote	81000381	1



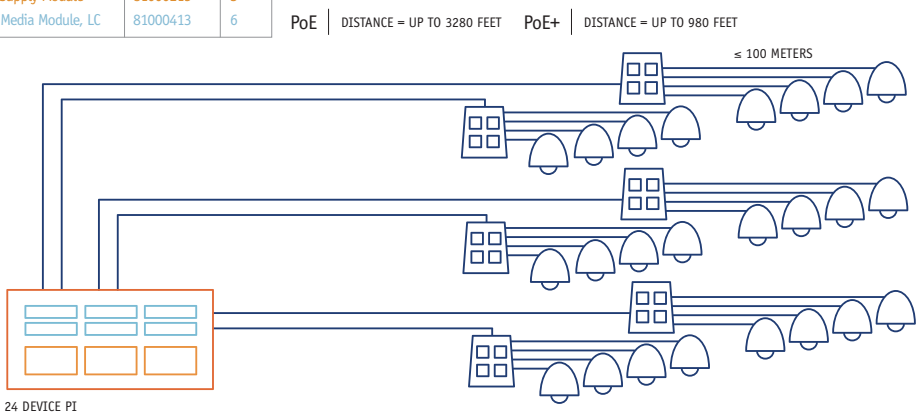
Eight security cameras installed in a small parking area:

PI			ONEREACH CABLE ASSEMBLY (xxx = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
2U Power Chassis	81000569	1	4-Port 12 AWG OCA	BACR08EDDDD44FFNM8Pxxx	2	4-Port Remote	81000684	2
Power Supply Module	81000215	1						
4-Port Media Module, LC	81000413	2						
Blanking Panels	81000190	2						



24 security cameras installed in a multi-story parking structure:

PI			ONEREACH CABLE ASSEMBLY (xxx = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
4U Power Chassis	81000568	1	4-Port 12 AWG OCA	BACR08EDDDD44FFNM8Pxxx	6	4-Port Remote	81000684	6
Power Supply Module	81000215	3						
4-Port Media Module, LC	81000413	6						



Berk-Tek reserves the right to change product numbers and/or product specifications at any time.

Configurator Examples/Distance Guarantees

Take PoE, PoE+, and HPoE simplicity and gigabit capability to new distances.

Head End Part Number & Source Description	Fiber Transmission Protocol	Chassis & Power Supply	Riser Cable Assembly[1]	PoE Max Distance (ft)	PoE+ Max Distance (ft)	HPoE Max Distance (ft)	Remote PoE Part Number & Description
81000380 1-Port Source, LC duplex, MMF, 1000BASE-T, RJ45, 0 to +40°C	1000BASE-SX	No	BHCR02EDD044FFNM8Pxxx	3,280 (20°C) 3,280 (50°C)	2,100 (20°C)[5] 1,856 (50°C)	1,000 (20°C)[5] 884 (50°C)	81000545 1-Port Remote, 1000BASE-SX, HPoE (60 W), LC duplex, MMF, 1000BASE-T, RJ45
81000380 1-Port Source, LC duplex, MMF, 1000BASE-T, RJ45, 0 to +40°C	1000BASE-SX	No	BHCR02EDD044FFNM8Pxxx	3,280 (20°C) 3,280 (50°C)	2,100 (20°C)[5] 1,856 (50°C)	N/A	81000381 1-Port Remote, 1000BASE-SX, PoE+, LC duplex, MMF, 1000BASE-T, RJ45
81000413 4-Port Media Module, 4 x LC duplex, MMF, 1000BASE-T, RJ45	1000BASE-SX	Yes	BACR08EDDDD44FFNM8Pxxx	3,280 (20°C) 3,280 (50°C)	980 (20°C)[5] 866 (50°C)	N/A	81000684 4-Port Remote, 1000BASE-SX, PoE+, 4 x LC duplex, MMF, 1000BASE-T, RJ45
81000413 4-Port Media Module, 4 x LC duplex, MMF, 1000BASE-T, RJ45	1000BASE-SX	Yes	BHCR02EDD044FFNM8Pxxx	3,280 (20°C) 3,280 (50°C)	2,100 (20°C)[5] 1,856 (50°C)	1,000 (20°C)[5] 884 (50°C)	81000545 1-Port Remote, 1000BASE-SX, HPoE (60 W), LC duplex, MMF, 1000BASE-T, RJ45
81000413 4-Port Media Module, 4 x LC duplex, MMF, 1000BASE-T, RJ45	1000BASE-SX	Yes	BHCR02EDD044FFNM8Pxxx	3,280 (20°C) 3,280 (50°C)	2,100 (20°C)[5] 1,856 (50°C)	N/A	81000381 1-Port Remote, 1000BASE-SX, PoE+, LC duplex, MMF, 1000BASE-T, RJ45
81000960 1-Port Source, LC Duplex, SMF, 1000BASE-T, RJ45, 0 to +40C	1000BASE-LX	No	BHCR02ADD044FFNM8Pxxx	8200 (20°C)[5] 7250 (50°C)	2100 (20°C)[5] 1856 (50°C)	1000 (20°C)[5] 884 (50°C)	81000959 1-Port Remote, 1000BASE-LX, HPoE (60 W), LC Duplex, SMF, 1000BASE-T, RJ45
81000960 1-Port Source, LC Duplex, SMF, 1000BASE-T, RJ45, 0 to +40C	1000BASE-LX	No	BHCR02ADD044FFNM8Pxxx	8200 (20°C) 7250 (50°C)	2100 (20°C) 1856 (50°C)	N/A	81000961 1-Port Remote, 1000BASE-LX, PoE+, LC Duplex, SMF, 1000BASE-T, RJ45

[1]Plenum cable assemblies and bulk fiber options are available; xxx denotes the length in feet.

[2]These are the maximum distances for the OneReach cable assemblies; an additional 100 m copper is available from the remote to the PoE Device.

[3]Other configurations, including DIN rail mounts, are available; please contact Tek Support for assistance.

*[4]These distances are valid for 0°C ≤ [T]Ambient ≤ 75°C, unless otherwise noted. 5For temperatures above 20°C, derate this length by multiplying the above value by: (1-([T]Ambient -20) *0.00386).*

*[5] For temperatures above 20°C, derate this length by multiplying the above value by: (1-([T]Ambient -20) *0.00386).*

CONFIGURE YOUR SYSTEM

RoHS COMPLIANT

Copper Cable Part Number Quick Reference Guide

Plenum

TABLE KEY:

***:** Non-stock product/Non-Returnable/10k' min unless noted

N/A: Not Available

A (Available to Purchase): No part number created for this referenced color and/or package.

Please call for MOQ on bundled, special legend, siamese, and color match opportunities.

		"CAT 5E 100 MH"	MIN 6	STANDARD 6	ENHANCED 6
COLOR	PACKAGING	HYPER+ 5E	LM-6	LM-1000	LM-2000
	GENERIC PART #	60000026	60004292	60000032	60000050
STOCK					
WHITE	Reels	10032222	10136265	10032091	10167311
	Pull-Box	10032223	10136230	10032092	N/A
	Reel in a Box	10032221	N/A	10065424	10167312
	smartPAK 1500'	11074746	11074742	11074738	N/A
BLUE	Reels	10032226	10136233	10032093	10163222
	Pull-Box	10032227	10136226	10032094	N/A
	Reel in a Box	10032225	N/A	10065423	10163780
	smartPAK 1500'	11074705	11074702	11074694	N/A
DARK "DK" GRAY	Reels	10032206	11091284	11098533	11094750
	Pull-Box	10032207	11091258	11091087	N/A
	Reel in a Box	10032205	N/A	11098532	11098632
	smartPAK 1500'	11074747	11094952	11097255	N/A
YELLOW	Reels	10032234	10136751	10032089	10167308
	Pull-Box	10032235	10136749	10032090	N/A
	Reel in a Box	10032233	N/A	10065427	10167309
	smartPAK 1500'	11074949	11074893	11074894	N/A
GREEN	Reels	10032231	10136750	10032096	10170668
	Pull-Box	10032232	10136748	10032097	N/A
	Reel in a Box	10032230	N/A	10065428	10170669
	smartPAK 1500'	11074950	11074897	11074895	N/A
MADE-TO-ORDER					
PINK	Reels	N/A	N/A	N/A	A*
	Pull-Box	10033814*	11049196*	10033811*	N/A
	Reel in a Box	N/A	N/A	N/A	10178756*
RED	Reels	N/A	N/A	N/A	10170684*
	Pull-Box	10032229*	10137365*	10033996*	N/A
	Reel in a Box	N/A	N/A	N/A	10170685
BLACK	Reels	N/A	N/A	N/A	10182494
	Pull-Box	10033521*	10188830*	10035304*	N/A
	Reel in a Box	N/A	N/A	N/A	11051916*
VIOLET	Reels	N/A	N/A	N/A	10170672*
	Pull-Box	10034885*	10137364*	10033809*	N/A
	Reel in a Box	N/A	N/A	N/A	10170673*
ORANGE	Reels	N/A	N/A	N/A	10170670*
	Pull-Box	10032236*	10141073*	10033997*	N/A
	Reel in a Box	N/A	N/A	N/A	10170671
BROWN	Reels	N/A	N/A	N/A	A*
	Pull-Box	10063926*	11060822*	10043530*	N/A
	Reel in a Box	N/A	N/A	N/A	11078228*
LIGHT "LT" GRAY	Reels	N/A	N/A	N/A	10167464*
	Pull-Box	A*	10132983*	10032026*	N/A
	Reel in a Box	N/A	N/A	N/A	10167307*

Copper Cable Part Number Quick Reference Guide

Plenum

TABLE KEY:

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N/A: Not Available

A (Available to Purchase): No part number created for this referenced color and/or package.

Please call for MOQ on bundled, special legend, siamese, and color match opportunities.

		AUGMENTED 6	"ENHANCED AUGMENTED 6"	10G RD DIA.	PoE POWER
COLOR	PACKAGING	LM-10G II	LM-XTP	10G REDUCED DIAMETER	LM-IP 5E
	GENERIC PART #	60004740	61000112	61000045	61000169
STOCK					
WHITE	Reels	10137384	11082058	11091156	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11089901	11101255	N/A	11098079
	smartPAK 1500'	N/A	N/A	N/A	N/A
BLUE	Reels	10130484	11082057	10190333	11097751
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11085339	11101254	N/A	11098078
	smartPAK 1500'	N/A	N/A	N/A	N/A
DARK "DK" GRAY	Reels	11096831	11094954	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11098634	11101256	N/A	11098080
	smartPAK 1500'	N/A	N/A	N/A	N/A
YELLOW	Reels	10137385	11090591	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11091217	11101264	N/A	A
	smartPAK 1500'	N/A	N/A	N/A	N/A
GREEN	Reels	10137694	11083158	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11085826	N/A	N/A	A
	smartPAK 1500'	N/A	N/A	N/A	N/A
MADE-TO-ORDER					
PINK	Reels	10140144*	11094339*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A	A
RED	Reels	10138765*	11090643*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11094708*	N/A	N/A	A
BLACK	Reels	10137695*	11090168*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	A	11101263*	N/A	A
VIOLET	Reels	10140145*	11085661*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11094707*	N/A	N/A	A
ORANGE	Reels	10138767*	11084255*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	11094420*	N/A	N/A	A
BROWN	Reels	11074350*	A	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A	A
LIGHT "LT" GRAY	Reels	10137183*	11082059*	A	A
	Pull-Box	N/A	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A	A

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Copper Cable Part Number Quick Reference Guide

Riser

TABLE KEY:

***:** Non-stock product/Non-Returnable/10k' min unless noted

N/A: Not Available

A (Available to Purchase): No part number created for this referenced color and/or package.

Please call for MOQ on bundled, special legend, siamese, and color match opportunities.

		"CAT 5E 100 MH"	MIN 6	STANDARD 6	ENHANCED 6
COLOR	PACKAGING	HYPER+ 5E	LM-6	LM-1000	LM-2000
	GENERIC PART #	60000027	60004291	60000033	60000051
STOCK					
WHITE	Reels	10032534	10136343	10032458	10167480
	Pull-Box	10032535	10136340	10032459	N/A
	Reel in a Box	10032533	N/A	10065430	10167481
	smartPAK 1500'	11074748	11074744	11074740	N/A
BLUE	Reels	10032527	10136342	10032454	10167476
	Pull-Box	10032528	10136339	10032455	N/A
	Reel in a Box	10032526	N/A	10065429	10167477
	smartPAK 1500'	11074706	11074703	11074701	N/A
DARK "DK" GRAY	Reels	10032509	11091285	11098537	11098648
	Pull-Box	10032510	11091257	11096490	N/A
	Reel in a Box	10032508	N/A	11098535	11098633
	smartPAK 1500'	11074749	11094953	11097256	N/A
YELLOW	Reels	10032530	10136775	10032460	10167482
	Pull-Box	10032531	10136753	10032461	N/A
	Reel in a Box	10032529	N/A	10065432	10167483
	smartPAK 1500'	11075016	11074906	11075010	N/A
GREEN	Reels	10032538	10136774	10032478	10170687
	Pull-Box	10032539	10136752	10032479	N/A
	Reel in a Box	10032537	N/A	10065433	10170688
	smartPAK 1500'	11075017	11074907	11075011	N/A
MADE-TO-ORDER					
PINK	Reels	N/A	N/A	N/A	A*
	Pull-Box	10032532*	11058425*	10042063*	N/A
	Reel in a Box	N/A	N/A	N/A	11000003*
RED	Reels	N/A	N/A	N/A	10170693*
	Pull-Box	10033584*	10170931*	10032477*	N/A
	Reel in a Box	N/A	N/A	N/A	10170694*
BLACK	Reels	N/A	N/A	N/A	10189739*
	Pull-Box	10032536*	10170932*	10033815*	N/A
	Reel in a Box	N/A	N/A	N/A	11078803*
VIOLET	Reels	N/A	N/A	N/A	10170691*
	Pull-Box	10044832*	11072302*	10032501*	N/A
	Reel in a Box	N/A	N/A	N/A	10170692*
ORANGE	Reels	N/A	N/A	N/A	10170689*
	Pull-Box	10033808*	10189773*	10042077*	N/A
	Reel in a Box	N/A	N/A	N/A	10170690*
BROWN	Reels	N/A	N/A	N/A	A*
	Pull-Box	10104234*	11091120*	11061484*	N/A
	Reel in a Box	N/A	N/A	N/A	A*
LIGHT "LT" GRAY	Reels	N/A	N/A	N/A	10167478*
	Pull-Box	10131935*	10136338*	10032452*	N/A
	Reel in a Box	N/A	N/A	N/A	10167479*

Copper Cable Part Number Quick Reference Guide

Riser

TABLE KEY:

***:** Non-stock product/Non-Returnable/10k' min unless noted

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Please call for MOQ on bundled, special legend, siamese, and color match opportunities.

		AUGMENTED 6	ENHANCED AUGMENTED 6	10G RD DIA.
COLOR	**PACKAGING**	**LM-10G II**	**LM-XTP**	**10G REDUCED DIAMETER**
	GENERIC PART #	60004741	61000111	61000046
STOCK				
WHITE	Reels	10137703	11082063	11091157
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	11089906	11101258	N/A
	smartPAK 1500'	N/A	N/A	N/A
BLUE	Reels	10137700	11082062	10189758
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	11084689	11101257	N/A
	smartPAK 1500'	N/A	N/A	N/A
DARK "DK" GRAY	Reels	11098650	11095916	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	11098635	11101259	N/A
	smartPAK 1500'	N/A	N/A	N/A
YELLOW	Reels	10137706	11090594	11063666
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	11091216	11101266	N/A
	smartPAK 1500'	N/A	N/A	N/A
GREEN	Reels	10138770	11085549	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	11085827	N/A	N/A
	smartPAK 1500'	N/A	N/A	N/A
MADE-TO-ORDER				
PINK	Reels	10138769*	A	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A
RED	Reels	10138768*	11091203*	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A
BLACK	Reels	10137704*	11090564*	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	11101265*	N/A
VIOLET	Reels	10137702*	11085668*	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A
ORANGE	Reels	10138772*	11085546*	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A
BROWN	Reels	A	A	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A
LIGHT "LT" GRAY	Reels	10137701*	11082064*	A
	Pull-Box	N/A	N/A	N/A
	Reel in a Box	A	N/A	N/A

RoHS COMPLIANT

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Copper Cable Part Number Quick Reference Guide

Miscellaneous

TABLE KEY:

***:** Non-Stock/MTO/Non-Returnable Products. 10k' min unless noted/smartPAK 1500 ft box 10.5k' min on MTO colors.

N/A: Not Available

A (Available to Purchase): No part number created for this referenced color and/or package.

Please call for MOQ on bundled, special legend, siamese, and color match opportunities.

Shielded Category Cables – FOIL (NOT SCREENED/BRAIDED) *Reels Only All MTO (10k' min) except Gray*

	PLENUM		RISER		PATCH	
COLOR	LM-6 FTP	LM-10G FTP	LM-6 FTP	LM-10G FTP	LM-6 FTP PATCH	LM-10G CMR PATCH FTP
GENERIC PART #	60004186	60006250	60004187	60006981	N/A	61000101
WHITE	10081255*	10167485*	10122953*	10189801*	10123966*	11091060*
BLUE	10091131*	10143424*	10122951*	10189567*	10123967*	11057587*
GRAY	10057903	10167487	10070439	10189798	10096091	11091070
YELLOW	10062608*	10167488*	10090687*	10189803*	10123965*	11091061*
GREEN	10089751*	10189246*	10107572*	10189092*	10163802*	11091064*
PINK	10188336*	10189547*	A*	11091990*	11099915*	11091065*
RED	10063671*	10188969*	10074211*	10189804*	10189258*	11091066*
BLACK	10063672*	10189549*	10074212*	11077196*	10189259*	11091067*
VIOLET	10081254*	10189548*	11085001*	11091991*	11078141*	11091068*
ORANGE	10095838*	10189550*	10189144*	11092580*	11030657*	11091069*
BROWN	11084406*	A*	10107573*	A*	10163801*	A*

TEKPATCH, MINI6, 28 AWG, UTP, REELS	
WHITE	11076605
BLUE	11078766
GRAY	A
YELLOW	11082780
GREEN	11082776
PINK	11082777*
RED	11082778*
BLACK	11082774*
VIOLET	11082779*
ORANGE	11079299*
BROWN	A*

TEKPATCH, MINI6A, 28 AWG, CM, FTP, REELS	
WHITE	11091165*
BLUE	11088677*
GRAY	11095816*
YELLOW	11098731*
GREEN	11098733*
PINK	A*
RED	11098730*
BLACK	11098732*
VIOLET	A*
ORANGE	A*
BROWN	A*

OUTSIDE PLANT	
Outside Plant, Cat 5E, UTP, BKRL	10071496
Outside Plant, LM 6, Cat 6, UTP, BKRL	10139885
Outside Plant, LM 1000, Cat 6, UTP, BKRL	11072213
Outside Plant, LM 10G, Cat 6A, UTP, BKRL	11094458

LOW SKEW (25K' MIN)	
Low Skew 24 AWG CMP BLRL	10189616*
Low Skew 24 AWG CMP BLTP	11056389*
Low Skew 24 AWG CMP GNRL	11056282*
Low Skew 24 AWG CMR BLRL	10189719*
Low Skew 24 AWG CMR BLTP	11056391*

LSZH - LOW SMOKE ZERO HALOGEN (25K' MIN)	
Hyper+5e, LSZH, BLRL	10188776*
Hyper+5e, LSZH, GRRL	10188777*
Hyper+5e, LSZH, WHRL	10188778*
Hyper+5e, CMR, FTP, ZERO HAL GRRL	10068824*
Hyper+5e, CMR, FTP, ZERO HAL BLRL	10091931*
LM 350, LSZH, BLRL	10188763*
LM 350, LSZH, GRRL	10188764*
LM 350, LSZH, WHRL	10188766*
LM 6, LSZH, BLRL	10188767*
LM 6, LSZH, GRRL	10188768*
LM 6, LSZH, WHRL	10188769*
LM 1000, LSZH, BLRL	10156701*
LM 1000, LSZH, GRRL	10156703*
LM 1000, LSZH, WHRL	10156702*
LM 2000, LSZH, BLRL	10188770*
LM 2000, LSZH, GRRL	10188771*
LM 2000, LSZH, WHRL	10188772*
LM 10G2, LSZH, BLRL	10188773*
LM 10G2, LSZH, GRRL	10188774*
LM 10G2, LSZH, WHRL	10188775*

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Copper Cable Part Number Quick Reference Guide

Miscellaneous

TABLE KEY:

*: Non-Stock/MTO/Non-Returnable Products. 10k' min unless noted/smartPAK 1500 ft box 10.5k' min on MTO colors.

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PATCH						
COLOR	PACKAGING	HYPER+ 5E	LM-350	LM-1000	LM-2000 (10k')	LM-10G (10k')
	GENERIC PART #	60000028	60000031	60000034	60000431	60004742
WHITE	Reels	10032716	10032643	10032679	10033821	10177330
	Pull-Box	10032717	10032644	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
BLUE	Reels	10032713	10032639	10032680	10033822	10123772
	Pull-Box	10032714	10032640	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
LIGHT GRAY	Reels	10032718	10032649	10032678	10033598	11035873
	Pull-Box	10032719	10032650	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
YELLOW	Reels	10032711	10032637	10032681	10033823	A
	Pull-Box	10032712	10032638	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
GREEN	Reels	10032709	10032647	10032693	10033825	10135528
	Pull-Box	10032710	10032648	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
PINK	Reels	10033590*	10032621*	10032700*	A	A
	Pull-Box	10083500*	A	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
RED	Reels	10032707*	10032645*	10032690*	10164378*	A
	Pull-Box	10032708*	10032646*	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
BLACK	Reels	10032705*	10032641*	10032692*	A	11060111*
	Pull-Box	10032706*	10032642*	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
VIOLET	Reels	10032715*	10032659*	10032691*	A	A
	Pull-Box	A	10032660*	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
ORANGE	Reels	10034057*	10032658*	10033898*	A	A
	Pull-Box	A	A	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A
BROWN	Reels	11075257*	A	A	A	A
	Pull-Box	A	A	N/A	N/A	N/A
	Reel in a Box	N/A	N/A	N/A	N/A	N/A

RoHS COMPLIANT

Berk-Tek®
A NEXANS COMPANY

Corporate Headquarters
132 White Oak Road
New Holland, PA 17557
USA
717-354-6200
www.berktek.com

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