**Adventum** provides significantly reduced installation and maintenance costs—as much as 26%* over traditional gel-filled fiber designs—with the reliable, premium performance you come to expect from Berk-Tek.

### Benefits
- Two auto-indexable loose-tube designs
- 52 channeling windows in 12 working areas for added flexibility in UFP/WDA and multi-reach installations
- Wire-on-plenum rated
- Smaller Ø than traditional Outside Plant and Tight Buffer cable designs: wire less conductors, lighter (less tool load)
- Cable Core and Buffer Tubes use gel-free outer blocking system to get clean-up
- Transition point terminations and system grounding requirements are eliminated
- All dielectric design
- Available with extruding armor up to 462 fibers

### Applications
- Berk-Tek recommends installation procedures per ANSI/TIA-606C, Customer-owned Outside Plant Telecommunications Infrastructure Standard
- Available with גIGAlite™, גIGAlite-10 and גIGAlite-10X Optical Fiber Technologies
- Designed to support 10-Gigabit Ethernet, Gigabit Ethernet, Gigabit ATM, Fiber Channel and other high-speed applications
- **IEEE 802.3 FOIRL (10 Mb/s); IEEE 802.3 10BASE-F (10 Mb/s); IEEE 802.3 1000BASE-SX/LX (1Gb/s);**
  - **IEEE 802.3 10GBASE-X (10 Gb/s); FDDI (100 Mb/s); ATM (155 Mb/s, 622 Mb/s, 1.2/2.4Gb/s),**
  - **Fibre Channel FC-P1-2 (1.06 Gb/s; 2.12 Gb/s and 4.25 Gb/s) and 10 Gigabit Fiber Channel**

### Standards
- ISO/IEC 11801; EN 50173; **Telcordia GR-409;** ICEA S-104-696; ANSI/ICEA S-87-640; **ETL, UL; OFNR/FT4, OFNP/FT6;**
  - **ANSI/TIA/EIA-568-B.3**

### ADVENTUM INDOOR AND OUTDOOR CABLE SPECS

<table>
<thead>
<tr>
<th><strong>ADVENTUM</strong></th>
<th><strong>Type</strong></th>
<th><strong>TIA/EIA-568-B.3</strong></th>
<th><strong>Telcordia GR-409</strong></th>
<th><strong>ANSI/ICEA S-83-596</strong></th>
<th><strong>ANSI/ICEA S-104-696</strong></th>
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<tbody>
<tr>
<td><strong>Indoor</strong></td>
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<td>Yes</td>
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<td>Yes</td>
<td>Special Designs Only</td>
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<td><strong>Outdoor</strong></td>
<td>Yes</td>
<td>No</td>
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</tbody>
</table>

*Cost savings based on the elimination of labor and material costs for transitions at building entrance when compared to gel-filled outside plant cable designs.
mo stdemanding mission critical enterprise is the first choice for so many network designers the application. It’s no wonder that Adventum extreme conditions of an outdoor environment. Berk-Tek Adventum is a true outdoor/indoor physical stresses associated with the more network. At the same time, many fiberoptic Choosing the right outdoor/indoor fiber cable makes your cable plant— outside or inside or both— with no transition point required between different outdoor/indoor fiber cables. The result: reduced installation costs— by as much as 26%! Fewer transitions also simplify network management. The tighter bend radii makes installation in crowded conduits easier and far less labor intensive. For high strand count cables, Adventum’s standard loose tube design utilizes 32 reverse oscillating lay stranding which enables mid-span access into the fibers for added flexibility in VPIIAK and multi-tier cabled environments. **ADVENTUM® FOR ALL ENVIRONMENTS, OUTDOOR AND INDOOR.** In addition to its indoor application, Adventum is also proven and wired up to be used in virtually any cable/plant—outside or inside or both—with no limitation of what emerges between environments. Adventum meets the largest requirements of EIA-440, and 446 A for outside plant cables as well as the ITU-T fiber test for plant environments and its cable for fiber installation. **INDUSTRY-LEADING PERFORMANCE.** Throughout your enterprise and campus environment, Adventum is designed to support high-speed, high-powered Gigabit applications like Gigabit Ethernet, 10 Gigabit Ethernet, Gigabit ATM and Fiber Channel— in fiber counts of 6 up to 48. Both BBF's 10 Gigabit and optical cable are engineered, manufactured and stringently tested in the United States. Our cabling solutions deliver reliable, robust, guaranteed optical performance that consistently meets every applicable industry standard. **OUTDOOR-CERTIFIED TOTAL CHANNEL PERFORMANCE.** Never before has an engineered and manufactured cable solution been so highly certified. All Berk-Tek solutions are independently tested and verified and are backed by a 25-year limited warranty. The result: a network cabling system that is guaranteed to exceed the most onerous requirements of even the most demanding applications. **BERK-TEK: AN UNWAVERING COMMITMENT TO QUALITY AND LEADERSHIP.** Both BBF and BBF's sister company, Orion, are leaders in the structured cabling industry with a focus on technology leadership and reliability that is unparalleled. Better than that, the BBF / Orion product lines guarantee over 25 years of field performance. For more information on Berk-Tek cabling solutions, NetClear, BBF, SAGE, BBF's sister company or any of the more than 100 different Berk-Tek cabling products, call 1-888-BERK-TEK or visit www.berktek.com. **SAGE: BERK-TEK’S INNOVATIVE OPEN ARCHITECTURE APPROACH.** Both BBF and BBF’s sister company, Orion, are leaders in the structured cabling industry with a focus on technology leadership and reliability that is unparalleled. Better than that, the BBF / Orion product lines guarantee over 25 years of field performance. For more information on Berk-Tek cabling solutions, NetClear, BBF, SAGE, BBF’s sister company or any of the more than 100 different Berk-Tek cabling products, call 1-888-BERK-TEK or visit www.berktek.com.
Choosing the right outdoor/indoor fiber cable can make all the difference in your enterprise network. At the same time, using fiber optic cables marketed as “outdoor/indoor” aren’t really suitable for both applications.

For example, tight buffer cable designs are protected by some of the industry’s leading manufacturers, even though most of these cables were originally designed for indoor use. While the addition of water-blocking technology to a tight buffer cable may provide protection from water penetration, it doesn’t provide optimal protection for the optical fibers from the physical stresses associated with the more extreme conditions of an outdoor environment.

Berk-Tek Adventum’s true outdoor/indoor cables specifically engineered and designed for the applications. It’s no wonder that Berk-Tek is the first choice for so many network designers and cabling professionals and is the spot for the most demanding critical enterprise and campus networks.

INDUSTRY LEADING PERFORMANCE AND SIGNIFICANT SAVINGS FROM A TRUE OUTDOOR/INDOOR FIBER OPTIC CABLE. BE SURE IT’S ADVENTUM.

Outdoor. Indoor. Riser. Plenum. Adventum meets all the codes and specs for all environments, from multi-tenant installations to rugged outdoor applications. The result: reduced installation costs—by as much as 26%!

For high count outdoor cables, Adventum’s standard loose tube design utilizes 12 core-rating attenuation and a testing system which enable mid-span access to the fibers for added flexibility in LNP/EP indoors and multi-tier test-benches.

ADVENTUM® FOR ALL ENVIRONMENTS. OUTDOOR AND INDOOR.

In addition to its indoor application, Adventum is also proven and tried and true it can be used in virtually any cable plant—outside or inside or both—with no limitations applied between environments. Adventum meets the rugged requirements of EIA-606, and EIA-569 for outside plant cables as well as the U.S. Fire Flame test for plenum environments and its cable for fire rating installations.

INDUSTRY LEADING PERFORMANCE. GUARANTEED!

Throughout your enterprise and campus environment, Adventum is designed to support high-speed, high-powered Gigabit applications like the Gigabit Ethernet, 10 Gigabit Ethernet, Gigabit ATM and Frame Channel—in fiber counts of 4 to 48.

Adventum’s installed performance is reliable—with attenuation and bandwidth specifications that exceed industry standards. Because Adventum is available in Berk-Tek’s proprietary GIGAlite™ and GIGAlite-100 optical fiber technologies, Adventum significantly extends your Gigabit Ethernet and 10 Gigabit Ethernet cabling life into the 2020s. For more information, please visit www.berktek.com or call 1-800-BERK-TEK.

BERK-TEK: AN UNMERSING COMMITMENT TO QUALITY AND LEADERSHIP.

At Berk-Tek, we’re about networking cabling, with over 100 different optical fiber, STP, FTP, cable and hybrid network cable products and an entire suite of complete products to this industry. For products we are the choice for information-intensive applications worldwide. Our cable network solutions comprise virtually every possible networking application and configuration imaginable.

Our products also offer low-maintenance solutions within every cable application and reduce installation costs by as much as 26%.

BERK-TEK’S PROVEN VALUE ADDITION. OUTDOOR AND INDOOR.

Perfect for Storage Area Networks or campus/premise installations. Enables the use of economical 850 nm transceivers for distances normally requiring single-mode transceivers that cost two to three times as much.

EXPIRE-AND-BREATHE OPTICAL FIBER TECHNOLOGY.

- Available across Berk-Tek’s entire fiber optic cable line.
- GIGAlite-100 research prototyped and proven network for 40/100G future.
- GIGAlite-10XB exceeds proposed OM4 standard and prepares networks for 40/100G future.
- Enhanced EMI profile for superior performance at 1 Gb/s and 10 Gb/s.
- Enables the use of economical 850 nm transceivers for distances normally requiring single-mode transceivers that cost two to three times as much.
- Fully compliant with IEC/IS 11801 multi-mode, strong legacy support for 10 Mb/s and above.
- Perfect for Storage Area Networks or campus/premise installations.

GIGALITE®: THREE OPTIONS, EXTRAORDINARY PERFORMANCE.

1 Gb/s: Single-mode 50 µm, 850 nm VCSEL
- IEEE Std: 1,000 meters
- Gigabit Ethernet, Gigabit ATM and Frame Channel—over fiber counts of 4 to 48
- Enhanced attenuation features allowing for 30% more attenuation than GIGAlite-10:
- 1 Gb/s: 1,000 meters
- Gigabit Ethernet, Gigabit ATM and Frame Channel—over fiber counts of 4 to 48

GIGALITE-10: 1000 METER 1 Gb/s confidence

- Wide bandwidth range
- 1000 m performance
- Can be used for up to 1 Gb/s

GIGALITE-10XB: 1000 m performance
- 10 Gb/s confidence
- 1000 m performance
- Can be used for up to 10 Gb/s
Choosing the right outdoor/indoor fiber cable can make all the difference to your enterprise network. At the same time, using fiber optic cables marketed as “indoor/outdoor” aren’t really suitable for both applications.

For example, tight buffer cable designs are protected by some indoor/outdoor applications, even though most of these cables were originally designed for indoor use. While the addition of water-blocking technology to a tight buffer cable may provide protection from the physical stresses associated with the more crowded conduits easier and far less labor intensive.

Adventum fiber cables are also up to 35% smaller and can tolerate extreme temperatures and can be confidently installed in virtually any environment, from a heated data center to a cold room in a ski lodge.

Industry leading performance and significant savings from a true outdoor/indoor fiber optic cable. Be sure it’s Adventum®.

Available with color coded moisture barrier in single or multi core configurations. Available in UL 444, UV and PBD friendly Riser and Indoor/Outdoor rated with OASIS and multi-tenant installations.

Be sure it’s Adventum®.
Adventum® provides significantly reduced installation and maintenance costs—as much as 28%* over traditional gel-filled fiber designs—with the reliable, premium performance you’ve come to expect from Berk-Tek.

**ADVENTUM AT A GLANCE**

**APPLICATIONS**
- Berk-Tek recommends installation procedures per ANSI/TIA-568C. Customer-owned Outside Plant Telecommunications Infrastructure
- Available with GIGAlite™, GIGAlite-10 and GIGAlite-10X Optical Fiber Technologies
- Designed to support 10-Gigabit Ethernet, Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications

**STANDARDS**
- ISO/IEC 11801
- EN 50173
- Telecordia GR-409
- ANSI/ICEA S-104-696
- ANSI/ICEA S-83-596
- ANSI/TIA/EIA-568-B.3
- TIA/EIA-568-B.3 (4.3.1)
- ANSI/ICEA S-87-640
- IEEE 802.3 FOIRL (10 Mb/s)
- IEEE 802.3 10BASE-F (10 Mb/s)
- IEEE 802.3 1000BASE-SX/LX (1 Gb/s)
- IEEE 802.3 10GBASE-X (10 Gb/s)
- FDDI (100 Mb/s)
- ATM (155 Mb/s, 622 Mb/s, 1.2/2.4 Gb/s)
- Fibre Channel FC-P1-2 (1.06 Gb/s; 2.12 Gb/s and 4.25 Gb/s) and 10 Gigabit Fibre Channel

**OUTDOOR/INDOOR FIBER OPTIC CABLE**
Adventum® because your business runs through us

**BENEFITS**
- True outdoor/indoor, loose-tube design
- 52 channel enabling high-span access for wider flexibility in LAN/WAN and multi-tenant installations
- Water or flames rated
- Smaller Ø than traditional Outside Plant and Tight Buffer cable designs; lower installation and maintenance costs
- Cable Core and Buffer Tubes use gel-free water blocking system to seal clean-up environments
- Transition point terminations and system grounding requirements are eliminated
- All dielectric design
- Available with backfilling armor up to 622 fibers

**ADVENTUM INDOOR AND OUTDOOR CABLE SPECS**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Indoor</th>
<th>Outdoor</th>
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<td>ADVENTUM S-1200</td>
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* Costs are based on the installation of labor and material costs for transitions at building entrance when compared to gel-filled outside plant cable designs.