About Draka

Draka (Euronext Amsterdam: DRAK), headquartered in Amsterdam, has 9600 employees and 2009 revenues of $2.0 billion. Draka, with over 100 years of experience, is one of the world’s largest fiber producers and the number one multimode fiber producer. Draka has a presence in 31 countries in Europe, North and South America, Asia and Australia. Draka’s activities are divided into three groups: Energy & Infrastructure, Industry & Specialty and Communications.

About Draka Communications Americas

Draka Communications Americas is a leader in innovative optical fiber and cable solutions with a portfolio of over 100,000 cables for indoor, indoor-outdoor, outdoor and specialty applications. Draka’s regional headquarters is located in Claremont, North Carolina, in the only co-located fiber and cable facility in North America. Our 128 acre campus is home to a world class 1.2 million square foot manufacturing facility dedicated to the development, delivery and deployment of optical fiber and fiber cable networks.

Draka maintains the highest level of industry certifications such as ISO 9001, ISO 14001 and TL 9000. Our products are designed and tested to the highest performance standards in the industry. Draka optical fiber and cables ensure sustainable performance in all installation conditions.

For more information, please call us at 800.879.9862 or visit us online at www.draka.com/communications.
Draka Communications offers a complete family of outdoor, indoor-outdoor, indoor and specialty fiber cabling that allows network operators, installers and enterprises to simply and cost-effectively deploy fiber infrastructure. These cables are available with a diverse line of single-mode, multimode and specialty fibers to fit virtually any application while supporting scalable bandwidth and next generation broadband transmission.

Network operators, installers and enterprises benefit from Draka’s ability to help companies deploy reliable broadband fiber infrastructure at the lowest installed cost – making fiber-rich architectures cost-competitive with traditional network infrastructure. Some of the markets where Draka Communications cabling is deployed include data centers, telecommunications carriers, CATV and video operators, utilities, enterprises & government agencies, nuclear power generation plants & municipalities (federal, state, and local).

Draka develops, delivers and deploys indoor, indoor-outdoor, outdoor and specialty fiber optic cables to connect your networks & cities.
With 27 million miles of fiber cable already deployed in North America, Draka fiber cable can be found in a wide variety of private network applications such as data centers, schools, transportation systems, hospitals, wind farms and a multitude of other environments. We know your challenges of working in crowded buildings, tight spaces, meeting building codes, deadlines & working with other obstacles. Draka understands the importance of deploying cable that can work within these conditions while keeping a network up, safe & reliable. Our premise cables are engineered with superior mechanical and optical performance while also meeting all critical NEC/CSA requirements for riser or plenum applications.

Indoor & Indoor-Outdoor Cable Designs

ezDISTRIBUTION™ cables package up to 144 color-coded 900µm tight buffered fibers into a single flame-retardant cable that provides easy installation and direct termination for intrabuilding and indoor applications.

Our robust indoor ezBREAKOUT™ and ezINTERCONNECT™ cables feature an easily strippable tight buffered coating, which enables simple direct field termination capability. Also, our ezINTERCONNECT ribbon cables and microfiber (MFC) cables provide solutions for applications requiring multi-fiber MPO style connectors.

The flame retardant ezPREP® indoor-outdoor loose tube cable series is offered in both gel-filled and gel-free loose tubes for ease of installation. These cables offer a tighter packing density for higher fiber counts in a variety of sheath options including corrugated steel tape for rodent protection as well as double jackets for additional mechanical protection.

Interlock armoring can be applied to flame-rated cables for increased protective crush resistance and mechanical protection. These cables also eliminate the need for separate conduit, providing quick one-step economical installation.

Specialty Cable Designs

Draka provides a variety of specialty cable designs for a wide variety of applications. Draka has ezINTERCONNECT cables for multi-dwelling units (MDUs), security installations and cutting edge data center applications. Draka also manufactures ezPREP cables to perform in harsh environments involving petrochemical resistance, tray suitability, and indoor/outdoor reliability. Draka is a leader in cables to the mining, transit, utility (both nuclear and conventional), and waste water management industries where service continuity is of vital importance. These cable designs incorporate all the value-added benefits of Draka’s world class standard products that ease installation, handling and operation.

Draka premise fiber optic cables meet or exceed performance standards as established by TIA/EIA 568, ICEA S-83-596, ICEA S-104-696, Telcordia GR-409 and are RoHS compliant.
### Indoor Cable

#### ezDISTRIBUTION™
**Riser, Plenum & LSZH**

- **Applications**: Intrabuilding Indoor Riser and Plenum applications providing direct field connectorization capability
- **Constructions**: Dielectric, Tight Buffered, ≥ 24f designs incorporate 6f or 12f subunits
- **Flame Ratings**: Riser (OFNR/FT-4) & Plenum (OFNP/FT-6)
- **Fiber Count**: 2 to 144 Fibers for Riser, 2 to 96 fiber for Plenum
- **Fiber Types**: Single-mode, Multimode and Specialty fibers
- **Options**: Interlock Armor
- **Performance**: TIA-568, ICEA S-83-596, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

#### Order Information
- **Riser / FT-4**: Indoor Distribution
  - 400 Series
- **Plenum / FT-6**: 800 Series
- **LSZH / Riser / FT-4**: LSZH Series

### ezBREAKOUT™
**Riser, Plenum & LSZH**

- **Applications**: For applications where rugged construction and durable routing protection are vital
- **Constructions**: Dielectric, Tight Buffered
- **Flame Ratings**: Riser (OFNR/FT-4) & Plenum (OFNP/FT-6)
- **Fiber Count**: Up to 36
- **Fiber Types**: Single-mode, Multimode and Specialty fibers
- **Options**: Interlock Armor
- **Performance**: TIA-568, ICEA S-83-596, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

#### Order Information
- **Riser / FT-4**: Indoor 1.6mm units
  - 516 Series
- **Plenum / FT-6**: Indoor 2.5mm units
  - 525 Series
- **LSZH / Riser / FT-4**: LSZH25 Series

### ezINTERCONNECT™
**Simplex & Duplex**
**Riser, Plenum & LSZH**

- **Applications**: Simple routing and patching in communication systems. Base component of optical jumpers and pigtails assemblies
- **Constructions**: Dielectric, Tight Buffered
- **Flame Ratings**: Riser (OFNR/FT-4) & Plenum (OFNP/FT-6)
- **Fiber Count**: 1 or 2
- **Fiber Types**: Single-mode, Multimode and Specialty fibers
- **Options**: Alternate indoor jacket colors available
- **Performance**: TIA-568, ICEA S-83-596, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

#### Order Information
- **Simplex 1.6mm OD**: 516 Series
- **Simplex 2.0mm OD**: 520 Series
- **Simplex 2.9mm OD**: 529 Series
- **Zipcord 1.6mm OD**: 516Z Series
- **Zipcord 2.0mm OD**: 520Z Series
- **Zipcord 2.9mm OD**: 529Z Series
- **2f Round 2.9mm OD**: 529R Series

### ezINTERCONNECT™ 900
**Micron Tight Buffered Fiber**

- **Applications**: Interconnect functions inside electronics and passive devices
- **Constructions**: Dielectric, Tight Buffered
- **Fiber Count**: 1
- **Fiber Types**: Single-mode, Multimode and Specialty fibers
- **Options**: Available in all 12 standard colors
- **Performance**: TIA-568, ICEA S-83-596, GR-409, RoHS Compliant

#### Order Information
- **900 Micron**: PVC
  - 900 Series
- **Polyester Elastomer**: 909 Series

Other cable constructions and fiber performance grades available upon request.
Indoor Cable

**ezINTERCONNECT™ Ribbon & Plenum**
- **Applications**: Routing and patching for indoor communication network locations for use with MPO Connectors
- **Constructions**: Dielectric, Loose Tube
- **Flame Ratings**: Plenum (OFNP/FT-6)
- **Fiber Count**: 12 to 72
- **Fiber Types**: Single-mode and Multimode
- **Options**: Suitable for MPO Style Connector
- **Performance**: GR-409, ICEA S-83-596; NFPA-262, CSA 22.2; RoHS Compliant

**Order Information**
- Round (12, 36 to 72) MFC Series
- Zipcord (24) MFCZ Series

**ezRIBBON™ Riser**
- **Applications**: Intrabuilding Indoor Riser in constrained riser shafts and cross floor applications
- **Constructions**: Central Tube Ribbon
- **Flame Ratings**: Riser (OFNR/FT-4)
- **Fiber Count**: Up to 216
- **Fiber Types**: Single-mode
- **Options**: Suitable for MPO Style Connector
- **Performance**: TIA-568, ICEA S-83-596, GR-409, UL-1666, CSA 22.2, RoHS Compliant

**Order Information**
- Riser / FT-4 CRRY Series

**Interlock Armor Riser, Plenum & LSZH**
- **Applications**: Option that increases the mechanical strength of installed cable products
- **Constructions**: May be applied to indoor cables
- **Flame Ratings**: Riser (OFCR/FT-4) & Plenum (OFCP/FT-6) as applicable
- **Fiber Count**: Per cable design limits
- **Fiber Types**: Single-mode and Multimode
- **Options**: Aluminum or Steel / Jacketed or Unjacketed
- **Performance**: TIA-568, ICEA S-83-596, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

**Order Information**
- Note: The appropriate notation is added after the product family designation in the part number. For example, “400AJ” would designate a riser rated ezDISTRIBUTION cable with aluminum jacketed interlock armor.

Other cable constructions and fiber performance grades available upon request.
Indoor-Outdoor Cable

ezPREP® Gel-Filled Loose Tube Riser & LSZH

**Applications**
Indoor-Outdoor applications to connect data electronics spaces between buildings when space constraints are present. Utilized in Outside Plant (OSP) and riser applications. Low-Smoke Zero-Halogen (LSZH) constructions are available in all constructions.

**Constructions**
Stranded Loose Tube

**Flame Ratings**
- Riser (OFNR/FT-4) - non armored
- Riser (OFCR/FT-4) - armored

**Fiber Count**
Up to 144 Fibers

**Fiber Types**
Single-mode, Multimode and Specialty fibers

**Options**
Double Jacket, Corrugated Armor, Interlock Armor versions

**Performance**
TIA-568, ICEA S-104-696, GR-20, GR-409, UL-1666, CSA 22.2, RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>Riser / FT-4</th>
<th>LSZH / Riser / FT-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>DRLTB Series</td>
<td>DRLTZB Series</td>
</tr>
<tr>
<td>Double Jacket</td>
<td>DRLTC Series</td>
<td>DRLTZC Series</td>
</tr>
<tr>
<td>Corrugated Armor (PSP)</td>
<td>DRLTD Series</td>
<td>DRLTZD Series</td>
</tr>
</tbody>
</table>

Other cable constructions and fiber performance grades available upon request.

ezPREP® Gel-Free Loose Tube Riser, Plenum & LSZH

**Specifications**
Indoor-Outdoor applications to connect data electronics spaces between buildings when space constraints are present. Utilized in Outside Plant (OSP), riser and plenum applications. Low-Smoke Zero-Halogen (LSZH) constructions are available in both armored and non-armored versions.

**Constructions**
Stranded Loose Tube

**Flame Ratings**
- General Purpose (OFNG-LS/FT-4); Riser (OFNR/FT-4); & Plenum (OFNP/FT-6)
- LSZH (all constructions) up to 288 fibers
- Riser (standard) up to 288 fibers
- Riser (double jacket and armor) up to 144 fibers
- Plenum up to 144 fibers

**Fiber Types**
Single-mode, Multimode and Specialty fibers

**Options**
Double Jacket, Corrugated Armor, Interlock Armor versions

**Performance**
TIA-568, ICEA S-104-696, GR-20, GR-409, UL-1685, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>Riser / FT-4</th>
<th>Plenum / FT-6</th>
<th>LSZH / General Purpose / FT-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>DRLDB Series</td>
<td>DPLDB Series</td>
<td>DDLSZHB Series</td>
</tr>
<tr>
<td>Double Jacket</td>
<td>DRLDC Series</td>
<td>DRLDB Series</td>
<td>DDLSZHC Series</td>
</tr>
<tr>
<td>Corrugated Armor (SP)</td>
<td>DRLDD Series</td>
<td>DPLDB Series</td>
<td>DDLSZHE Series</td>
</tr>
<tr>
<td>Corrugated Armor (PSP)</td>
<td>DRLDD Series</td>
<td>DPLDB Series</td>
<td>DDLSZHE Series</td>
</tr>
</tbody>
</table>

ezPREP® Central Loose Tube Riser, Plenum & LSZH

**Specifications**
Low profile, low cost solution option for Indoor-Outdoor applications to connect data electronics spaces between buildings. Low-Smoke Zero-Halogen (LSZH) constructions are available.

**Constructions**
Central Loose Tube

**Flame Ratings**
Riser (OFNR/FT-4) & Plenum (OFNP/FT-6)

**Fiber Count**
2 to 12 Fibers

**Fiber Types**
Single-mode, Multimode and Specialty fibers

**Options**
Interlock Armor versions

**Performance**
TIA-568, ICEA S-104-696, GR-20, GR-409, UL-1685, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>Riser / FT-4</th>
<th>Plenum / FT-6</th>
<th>LSZH / Riser / FT-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>DRLDB Series</td>
<td>DPLDB Series</td>
<td>DDLSZHB Series</td>
</tr>
</tbody>
</table>

Other cable constructions and fiber performance grades available upon request.
Indoor-Outdoor Cable

ezDISTRIBUTION™
Riser & Plenum

Specifications
Applications
Intrabuilding Indoor Riser and Plenum applications providing direct field connectorization capability

Constructions
Dielectric, Tight Buffered, ≥ 24f designs incorporate 6f or 12f subunits

Flame Ratings
Riser (OFNR/FT-4) & Plenum (OFNP/FT-6)

Fiber Count
2 to 144 Fibers for Riser, 2 to 96 Fiber for Plenum

Fiber Types
Single-mode, Multimode and Specialty fibers

Options
Interlock Armor versions

Performance
TIA-568, ICEA S-104-696, GR-20, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

Order Information
Riser / FT-4
Indoor-Outdoor Distribution C1181 Series

Plenum / FT-6

Indoor-Outdoor Distribution C1182 Series

Interlock Armor

Specifications
Applications
Option that increases the mechanical strength of installed cable products
Enables the simultaneous installation of a cable within a flexible metal conduit.

Constructions
May be applied to Indoor-Outdoor cables

Flame Ratings
Riser (OFCR/FT-4) & Plenum (OFCP/FT-6) as applicable

Fiber Count
Per cable design limits

Fiber Types
Single-mode, Multimode and Specialty fibers

Options
Aluminum or Steel / Jacketed or Unjacketed

Performance
TIA-568, ICEA S-83-596, GR-409, UL-1666, NFPA-262, CSA 22.2, RoHS Compliant

Order Information
Riser / FT-4

Note: The appropriate notation is added after the product family designation in the part number.
For example, “C1181AJ” would designate an Indoor/Outdoor riser rated ezDISTRIBUTION cable with aluminum jacketed interlock armor.

Other cable constructions and fiber performance grades available upon request.
### Specialty Cable

#### Chemical Resistant / Tray

**Applications**
For industrial and airport applications requiring chemical resistance, tray applications and indoor-outdoor suitability.

**Constructions**
Dielectric, Loose Tube

**Flame Ratings**
General Purpose (OFN-LS/OFC-LS)

**Fiber Count**
2 to 216

**Fiber Types**
Single-mode and Multimode

**Options**
Custom Heavy Duty Tensile Rating Version Available

**Performance**
GR-20; GR-409; ICEA S-104-696; UL-1685; RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>OFN-LS</th>
<th>OFC-LS</th>
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</thead>
<tbody>
<tr>
<td>Single Jacket (Standard)</td>
<td>DXPCB Series</td>
<td>DXPCC Series</td>
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<tr>
<td>Dual Jacket</td>
<td>DXPCC Series</td>
<td>DXPCD Series</td>
</tr>
<tr>
<td>Armored, Dual Jacket</td>
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</tr>
</tbody>
</table>

#### Mining

**Applications**
Ruggedized cable designs specifically intended for mines, mine shafts and cable trays used for mining applications. Certified for use by national and state authorities.

**Constructions**
Dielectric double jacket, loose tube (LT), 4500N (1000 lb) Heavy Duty Tensile rating, Tight Buffered (TB) Breakout (Standard and Heavy Duty), Tight Buffered (TB) Distribution (Standard and Heavy Duty), Pressure extruded jacket

**Flame Ratings**
Riser (OFNR/FT-4) and/or MSHA/Pennsylvania Bureau of Deep Mine Safety

**Fiber Count**
Double jacket LT up to 144, Tight Buffered Breakout up to 36, Mining Tight Buffered Distribution up to 12

**Fiber Types**
Single-mode and Multimode

**Performance**
GR-20; ICEA S-104-696; UL-1666; RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>MSHA / Riser / FT-4</th>
<th>MSHA</th>
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<tbody>
<tr>
<td>Dual Jacket Loose Tube (Heavy Duty)</td>
<td>RLTM Series</td>
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<tr>
<td>Tight Buffer Breakout (Standard)</td>
<td>RBOM Series</td>
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</tr>
<tr>
<td>Tight Buffer Breakout (Heavy Duty), Pressure Extruded Jacket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine Tight Buffered Distribution, Single Jacket (Standard)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruggedized Mine Tight Buffered Distribution, Double Jacket (Heavy Duty)</td>
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</tr>
</tbody>
</table>

**Order Information**
MSHA / Riser / FT-4

#### Petrochemical / Utility / Waste Water Management

**Applications**
For harsh environmental conditions where chemical resistance, extreme crush resistance and low temperature performance are vital performance requirements. Suitable for petrochemical facilities, tray, water supply & power generation sites and waste water/storm drain management applications.

**Constructions**
Dielectric double jacket, loose tube, 4500N (1000 lb) Heavy Duty Tensile rating

**Flame Ratings**
General Purpose (OFNG / FT-4)

**Fiber Count**
2 to 288

**Fiber Types**
Single-mode and Multimode

**Performance**
ICEA S-104-696; UL-1685; CSA 22.2, CSA 230; CSA 232; RoHS Compliant

<table>
<thead>
<tr>
<th>Order Information</th>
<th>OFNG / FT-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Jacket (Standard)</td>
<td>DWWC Series</td>
</tr>
</tbody>
</table>

Other cable constructions and fiber performance grades available upon request.
Specialty Cable

**Nuclear***

* Specifications
** Applications: *Ruggedized loose tube and tight buffered cable designs ideally suited for use in nuclear power plants for communication links, data networks, video broadcasting and emergency system repair. These cables are built to conform to the requirements of the Nuclear Regulatory Commission (NRC), are all PVC-free constructions and comply with the Quality Assurance Requirements of 10CFR50, Appendix B.*

** Constructions:**
- Dielectric Loose Tube (LT)
- Tight Buffered (TB) Distribution
- Tight Buffered (TB) Breakout

** Flame Ratings:**
- General Purpose (OFN-LS), Riser (OFNR/FT-4) or Plenum (OFNP/FT-6)
- Loose Tube up to 288
- LSZH Tight Buffered Distribution up to 72
- Tight Buffered Breakout up to 36

** Fiber Count:**
- Single-mode, Multimode and Radiation Hardened optical fiber

** Options:**
- Interlock armor versions

** Performance:**
- IEEE-383; 10CFR50, Appendix B; ICEA S-83-596; UL-1685; UL-1666; CSA 22.2; NFPA-262; RoHS Compliant

**Order Information**
- General Purpose
  - LSZH Gel-Filled Loose Tube: S779L Series
  - LSZH Gel-Free Loose Tube: SS0L Series
  - LSZH TB Distribution: S691T Series
  - LSZH TB Breakout: S690T Series
  - Plenum TB Breakout: S753T Series

*Note: Nuclear Cables are exclusively sold through Cablelan, a United States Draka authorized distributor.*

**Data Center**

* Specifications
** Applications: *Routing and patching for indoor communication network locations for use with MPO connectors.*

** Constructions:**
- Dielectric, Loose Tube

** Flame Ratings:**
- General Purpose (OFN-LS), Riser (OFNR/FT-4)

** Fiber Count:**
- 12 to 72

** Fiber Types:**
- Single-mode and Multimode

** Options:**
- Suitable for MPO Style Connectors

** Performance:**
- GR-409, ICEA S-83-596; NFPA-262, CSA 22.2; RoHS Compliant

**Order Information**
- General Purpose
  - Round (12, 36 to 72): MFC Series
  - Zipcord (24): MFCZ Series

Other cable constructions and fiber performance grades available upon request.
Specialty Cable

**MDU**

**Specifications**
- **Applications**: Routing and patching in locations with tight bends such as apartments, condominiums and business retail centers
- **Constructions**: Dielectric, Tight Buffered
- **Flame Ratings**: Riser (OFNR/FT-4)
- **Fiber Count**: 1
- **Fiber Types**: BendBright-XS and BendBright-Elite
- **Options**: Alternate Indoor jacket colors available
- **Performance**: ITU-T G.657; GR-409, ICEA S-83-596; UL-1666, CSA 22.2; RoHS Compliant

**Order Information**
- Indoor 2.9mm OD: MDU829IV Series
- Indoor 4.8mm OD: MDU548IV Series
- Indoor Outdoor 4.8mm OD: MDU548BK Series

**Security**

**Specifications**
- **Applications**: Routing and patching in locations with tight bends to support security systems in residential and industrial areas
- **Constructions**: Dielectric, Tight Buffered
- **Flame Ratings**: Riser (OFNR/FT-4)
- **Fiber Count**: 1
- **Fiber Types**: BendBright-XS and Multimode
- **Options**: Alternate Specialty jacket colors available
- **Performance**: ITU-T G.657; GR-409, ICEA S-83-596; UL-1666, CSA 22.2; RoHS Compliant

**Order Information**
- Indoor 4.8mm OD: ISOC Series
- Indoor Outdoor 4.8mm OD: ISOCBK Series

*Note: Nuclear Cables are exclusively sold through Cablelan, a United States Draka authorized distributor.*

Other cable constructions and fiber performance grades available upon request.
When designing a cable, sometimes it’s the little things that create value when working with Draka fiber optic cable. For example, all Draka single jacket cables contain at least one ripcord, but Draka armored and multi-jacket cables have two ripcords to ensure ease of entry. In addition, Draka is the only manufacturer to use an adhesive bond between its armor and jacket. This prevents the jacket from adhering directly to the armor so it can be easily removed, which is especially important when attempting a mid-span entry. Finally, Draka cable is spooled with a perfect traverse to prevent tangling upon installation and we attach attenuation test results to every reel.

To make certain that accessing our cable is “ez”, Draka also designed the best buffer tube access tool available. Not only is it incredibly simple to use, ezTools have been tested by Telcordia and shown to prevent damage to the fiber that is common with other tools.
Outdoor Cable | General Purpose

**ezPREP® Gel & Gel-Free**

**Loose Tube**

**Specifications**
- Applications: Multi-purpose Outdoor - Aerial Lashed, Duct, Direct Buried
- Constructions: Dielectric, Armored, Double Armored
- Fiber Count: 2 to 432 Fibers in Color-Coded Buffer Tubes
- Fiber Types: Single-mode, Multimode and Specialty Fiber
- Options: Central Loose Tube 300 & 600 lbf. (2-12f) / Gel & Gel-Free / -50˚C Versions
- Performance: ANSI/ICEA S-87-640, RUS 7 CFR-1755-900 (PE90 Listed), Telcordia GR-20

**Order Information**

<table>
<thead>
<tr>
<th>Series</th>
<th>Fiber Count</th>
</tr>
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<tbody>
<tr>
<td>ETH</td>
<td>2 to 432 Fibers (12 Fibers per Tube)</td>
</tr>
<tr>
<td>EDH</td>
<td>2 to 432 Fibers (12 Fibers per Tube)</td>
</tr>
<tr>
<td>E3H</td>
<td>2 to 288 Fibers (12 Fibers per Tube)</td>
</tr>
<tr>
<td>C3R</td>
<td>2 to 12 Fibers (300 lbf rated)</td>
</tr>
<tr>
<td>D3R</td>
<td>2 to 12 Fibers (300 lbf rated)</td>
</tr>
<tr>
<td>C6H</td>
<td>2 to 12 Fibers (600 lbf rated)</td>
</tr>
<tr>
<td>D6H</td>
<td>2 to 12 Fibers (600 lbf rated)</td>
</tr>
</tbody>
</table>

**ezRIBBON™ Gel & Gel-Free**

**Specifications**
- Applications: Multi-purpose Outdoor - Aerial Lashed, Duct, Direct Buried
- Constructions: Dielectric, Armored
- Fiber Count: 12 to 864 Fibers in Multi-fiber Ribbons
- Fiber Types: Single-mode
- Options: Central Tube & Ribbon in Loose Tube Designs / Gel & Gel-Free
- Performance: ANSI/ICEA S-87-640, RUS 7 CFR-1755-900 (PE90 Listed), Telcordia GR-20

**Order Information**

<table>
<thead>
<tr>
<th>Series</th>
<th>Fiber Count</th>
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</thead>
<tbody>
<tr>
<td>CR2</td>
<td>12 to 216 Fibers (12 Fiber Ribbons)</td>
</tr>
<tr>
<td>CR4</td>
<td>240 to 432 Fibers (24 Fiber Ribbons)</td>
</tr>
<tr>
<td>DR2</td>
<td>12 to 216 Fibers (12 Fiber Ribbons)</td>
</tr>
<tr>
<td>DR4</td>
<td>240 to 432 Fibers (24 Fiber Ribbons)</td>
</tr>
<tr>
<td>SRS</td>
<td>288 to 864 Fibers (12 Fiber Ribbons)</td>
</tr>
</tbody>
</table>

**ezMICROUNITUBE™**

**Specifications**
- Applications: Multi-purpose Outdoor - Aerial Lashed, Duct, Direct Buried
- Constructions: Dielectric, Armored
- Fiber Count: 2 to 24 Fibers Armored Fiber Bundles Separated by Color-coded Binder Threads
- Fiber Types: Single-mode, Multimode and Specialty Fiber
- Performance: ANSI/ICEA S-87-640, RUS 7 CFR-1755-900 (PE90 listed), Telcordia GR-20

**Order Information**

<table>
<thead>
<tr>
<th>Series</th>
<th>Fiber Count</th>
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</thead>
<tbody>
<tr>
<td>UMH</td>
<td>2 to 24 Fibers (12 Fiber Bundles)</td>
</tr>
</tbody>
</table>

Other cable constructions and fiber performance grades available upon request.
Outdoor Cable | Application Specific

ezDROP™ Flat, Figure 8, Ribbon & ezPREP® Central Loose Tube

Specifications
Applications
Multi-purpose FTTx – Aerial Self-Support, Direct Buried or Duct Using Existing Hardware & Methods

Constructions
Flat (Dielectric, Toneable) / Figure 8 / Ribbon (Dielectric, Toneable)

Fiber Count
1 to 12 Fibers (Flat) / 2 to 6 Fibers (Figure 8) / 4 or 6 Fiber Ribbon (Flat)

Fiber Types
Single-mode and Multimode

Options
Packaging: Portable Box / Spool / Bulk Reel / Preconnectorized (1 or 2 Ends)

Performance
Applicable ANSI/ICEA, RUS Listed, Telcordia GR-20 for Drop Cable Requirements

Order Information
Series | Fiber Count
--- | ---
ezDROP | Flat, Dielectric
DFS | 1 to 12 Fibers
ezDROP | Flat, Toneable
DFT | 1 to 12 Fibers
ezDROP | Ribbon, Dielectric
DRS | 4 or 6 Fibers
ezDROP | Ribbon, Toneable
DRT | 4 or 6 Fibers
ezPREP Loose Tube | Central 300
C3H | 1 or 12 Fibers (without ripcords)
ezPREP Loose Tube | Central 300
D3H | 1 or 12 Fibers (without ripcords) Gel-Free
ezPREP Loose Tube | Central 300
C3R | 1 or 12 Fibers (with ripcords)
ezPREP Loose Tube | Central 300
D3R | 1 or 12 Fibers (with ripcords) Gel-Free

Order Information
Series | Fiber Count
--- | ---
ezMICRODUCT | Dielectric
MDS | 2 to 144 Fibers

Order Information
Series | Span Lengths
--- | ---
ezSPAN ADSS | Short Span
ADE | Up to 1,700’ / 500m (2 to 144 fibers)
ezSPAN ADSS | Long Span
ADL | Up to 2,600’ / 800m (2 to 288 fibers)
ezSPAN ADSS | UltraLight
ADU | Up to 430’ / 130m (2 to 30 fibers)

Order Information
Series | Span Lengths
--- | ---
ezPREP Loose Tube | Figure 8
F8S | Up to 600’ / 183m (Dependent on Loading)

Other cable constructions and fiber performance grades available upon request.
Tools

**ezTOOLS™ Midspan Access Tool**

**Specifications**

- **Applications**
  - Reliable Tube Mid-entry into Draka's Loose Buffer Tubes & Central Tubes
  - Flexible Access for Fiber Distribution, Drops & Reconfiguration

- **Tool Types**
  - Loose Tube (1.5 to 4.3mm) & Central Tube (4.3 to 14.0mm) Versions

- **Options**
  - Inserts to Fit a Variety of Loose Tube & Central Tube Sizes

**Order Information**

<table>
<thead>
<tr>
<th>Tube Sizes / Inserts (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ezTOOLS</td>
</tr>
<tr>
<td>ezTOOLS</td>
</tr>
</tbody>
</table>

**ezTOOLS™ Cable Slitter Tool**

**Specifications**

- **Applications**
  - Removes the Jacket Sheath & Armor on fiber cables
  - Ring cuts & longitudinal jacket slitting

- **Cable Types**
  - Round cables from 1/4” to 1” diameter (6 to 25mm)

- **Tool Types**
  - Simple one hand operation / Slitting Action / Quick change from ring to longitudinal cuts

- **Options**
  - Replacement blades for long-term use

**Item Description**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Jacket Slitter Tool</td>
<td>20030754</td>
</tr>
<tr>
<td>Replacement Blades</td>
<td>20030755</td>
</tr>
</tbody>
</table>

Other cable constructions and fiber performance grades available upon request.
Draka offers a variety of connectorized fiber cables for indoor and outdoor applications. Many of Draka’s connectorized cables are available with Megladon’s HLC® Scratchquard™ technology* which provides a scratch resistant, highly durable fiber mating surface.

Draka is also a leading supplier of fiber cable to other OEM’s who specialize in providing quick turn connectorized fiber cables to the Americas market.

When ordering Draka connectorized cables, ask about our expanding line of bend insensitive fibers for use in your connectorized cable products. Draka is a leading manufacturer of bend insensitive single-mode and multimode fiber cables which are rapidly expanding into the world of connectorized cable applications.

* HLC® and Scratchquard™ are registered trademarks of Megladon®.
Connectorized Cable

**CATV Connectorized Node***

![Image of CATV Connectorized Node]

**Specifications**

- **Applications**: CATV, FTTx, Nodes
- **Configurations**: Preconnectorized Central Loose Tube Armored and Dielectric
- **Connector Types**: SC, FC with UPC (Ultra PC), APC (Angled PC) with HLC® Scratchguard™ Technology
- **Fiber Count**: Up to 12 fibers
- **Fiber Types**: Single-mode
- **Options**: Preconnectorized Ends - 1 (pigtail)
  - With or without 5/8” Metal Grommet
  - Packaging: coils (up to 200’) or reels

* HLC® and Scratchguard™ are registered trademarks of Megladon®.

**MDU Indoor Bundle**

![Image of MDU Indoor Bundle]

**Specifications**

- **Applications**: Intrabuilding Indoor Riser for hallways of residential multi-dwelling units (MDU) and corridors of commercial multi-tenant units (MTU)
- **Configurations**: Preconnectorized 1.6mm tight buffered subunits, 6f or 12f versions
- **Connector Types**: Preconnectorized SCAPC (one end)
- **Fiber Count**: 6 or 12
- **Fiber Types**: Bend Insensitive Fiber
- **Options**: Preconnectorized end with pulling sock attachment
  - Packaged on disposable reel
  - Standard lengths of 100, 150, 200, 250, 300, 400, 500 feet

**ezDROP™ Connectorized**

![Image of ezDROP™ Connectorized]

**Specifications**

- **Applications**: Preconnectorized FTTx Drop Cable Aerial Self-Support, Direct Buried, Duct
- **Configurations**: Preconnectorized Fiber Drop Cable (1, 2-12 fiber)
- **Connector Types**: LC, SC, FC, & ST & Hardened Connectors (Ultra & Angled Polish Available)
- **Fiber Count**: up to 12 (Configuration Dependent)
- **Fiber Types**: Single-mode and Multimode
- **Cable Types**: 1-6f Flat Drop Cable - Dielectric, Toneable; 2-12f Central Loose Tube Armored
- **Options**: Preconnectorized ends: 1 (pigtail) or 2 (jumpers)
  - Packaging: coils (up to 200’) or reels
  - ANSI/ICEA, RDUP/RUS, Telcordia GR-20 Drop cable specifications, GR3120

**MDU Connectorized Drop**

![Image of MDU Connectorized Drop]

**Specifications**

- **Applications**: Multiple Dwelling Units (MDU)
- **Configurations**: Cables (1 or 2 ends)
- **Connector Types**: Preconnectorized SCAPC
- **Fiber Count**: 1 fiber
- **Fiber Types**: Bend-Insensitive Fiber
- **Options**: Reels with 50, 100, 150, 200, 250, 300 foot lengths

Other cable constructions and fiber performance grades available upon request.
Draka offers a complete portfolio of optical fibers to support a variety of cable applications and requirements. Single-mode fibers include Enhanced Single-mode (Low Water Peak), TeraLight®, NZDSF-LA, ezDISTANCE™, LongLine, BendBright, BendBright-XS and BendBright-Elite. All Draka fibers are fully compliant with relevant industry standards including ITU, TIA, ICEA, IEC, Telcordia and RUS. Thanks to unique processes developed in-house, the PCVD™ (Plasma-activated Chemical Vapor Deposition) core preform process and the APVD® (Advanced Plasma Vapor Deposition) over cladding process, as well as a strong commitment to research and development, Draka Communications Optical Fiber is well positioned to provide customers with the right fiber product to meet all of their communication needs.

Draka’s unique manufacturing success has been vital in making Draka the leading supplier of Bend-Insensitive single-mode and multimode fibers. Draka 50µm multimode fiber is supplied with the BendBright technology for enhanced bending performance.

Industry-Leading Optical Fiber Innovations

- BendBright® and ColorLock® Single-mode Fiber Innovations
- MaxCap®-BB-OM2+, OM3 and OM4 Multimode Fiber

About ColorLock-XS® Fiber Coating

Unlike other single-mode fibers on the market that require an additional process to color the fiber, ColorLock-XS uses a patented technology in which the fibers are colored during the draw manufacturing process. Draka fibers offer unmatched reliability and world-class optical and aging performance using Draka’s revolutionary ColorLock-XS Coating System which incorporates color into the fibers’ secondary coating. This replaces the traditional method of surface application of thin layers of ultraviolet (UV) curable inks by passing the fiber through small dies. Coloring with inks after the fiber is made can result in geometric fluctuations, color variations and reduction in strength through die abrasion. With Draka fibers, coated geometry is guaranteed and fiber color is always vibrant and consistent, even with age. Most important, Draka is the only manufacturer that tests after coloring, guaranteeing fiber strength and durability. Fibers made by other manufacturers are proof-tested uncolored, leaving the impacts of coloring on the fibers’ strength untested.
Fiber Optics | Optical Fiber Types

Single-mode Fibers
ESMF, BendBright®, BendBright-XS, BendBright-Elite, TeraLight®, NZDSF-LA, ezDISTANCE™ & LongLine

Specifications
Applications
ESMF Enhanced Single-mode
ESMF
BendBright
BendBright-XS
BendBright-Elite
TeraLight Ultra
TeraLight
NZDSF-LA
ezDISTANCE Ultra Low Loss
LongLine
Transmission
Metro
Access, Premises, Metro
Premises
Long-Haul
Long-Haul
Long-Haul, Metro
Long-Haul
Benefits
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Low Attenuation / DWDM / Lifetime Reliability / ColorLock-XS® Coating
Fiber Code
ES
BB
BX
BE
TU
LA
UL
LL
Spec (ITU)
G.652.D
G.656.C & E and G.656
G.656.C & E and G.656
G.656.C & D
G.654.B

Multimode Fibers
MaxCap®, Standard

Specifications
Applications
Building, Campus, Data Center & Local Area Network
Typically Includes Ethernet, ATM, Fiber Channel, FDDI, Token Ring
MaxCap: Maximum Bandwidth / 10 GbE Optimized - Bend-Insensitive / 50µm Core
Standard: Legacy Bandwidth / Up To 1 GbE Distance-limited / 50 & 62.5µm Core
Performance
IEC 60793-2-10, ISO/IEC 11801, TIA-568A

Order Information
Application
Metro
Metro
Access, Premises, Metro
Premise
Long-Haul
Long-Haul
Long-Haul, Metro
Long-Haul
Fiber Size
ESMF
BendBright
BendBright-XS
BendBright-Elite
TeraLight Ultra
TeraLight
NZDSF-LA
ezDISTANCE Ultra Low Loss
LongLine
Fiber Code
Metro
BB
BX
BE
TU
LA
UL
LL
Spec (ISO / IEC)
G.652.D
G.656.C & E and G.656
G.656.C & E and G.656
G.656.C & D
G.654.B

Modern Multimode Fibers
MaxCap-BB-OM4 (10 GbE / 550m)
MaxCap-BB-OM3 (10 GbE / 300m)
MaxCap-BB-OM2+ (10 GbE / 150m)
Legacy 62.5µm (Std Graded-Index)
Core Size
50µm
50µm
50µm
62.5µm
Fiber Code
5G
5F
5E
6S
Spec (ISO / IEC)
OM-4 / A1a.2
OM-3 / A1a.2
OM2/OM-2+ / A1a.2
OM-1 / Alb
Draka manufactures more than 100,000 varieties of fiber optic cable. We have prepared this guide to help you select the ideal cable for your application.

1. How many fibers are needed in this cable?
   Choose 1-864:________________________
   Advice: When above 12 fibers, order in units divisible by 12 (ex: 24, 36, 48)

2. What type of fiber is required in this cable? (Check One)
   - Bend-Insensitive Fiber (BendBright) G.657.A1 & G.652.D
   - BendBright-Elite, G.657.B3 & A2, G.652.D
   - Non-Zero Dispersion Shifted Single-mode - Large area - (NZDS-LA), G.655
   - Non-Zero Dispersion Shifted Single-mode - TeraLight® - (NZDS-TLU), G.655 & G.656
   - 62.5 micron OM1 Multimode Fiber
   - 50 micron OM2 Multimode Fiber (MaxCap-BB-OM2+)
   - 50 micron OM3 10 GbE Multimode Fiber (MaxCap-BB-OM3)
   - 50 micron OM4 10/40 GbE Multimode Fiber (MaxCap-BB-OM4)
   - Ultra Low Loss (Long Distance)

3. Total length of cable needed?
   _____________________ meters or feet
   Advice: Draka has a minimum order quantity of 1,640 feet for indoor cable and 3,280 feet for outdoor cable.

4. Do you need the cable cut into specific lengths or packaged in a unique way?
   ______________________________________________________
   Advice: Draka typically places cables on non-returnable wood reels.
   Advice: Cables cut to lengths less than 3,280 feet (outdoor cable) or 1,640 feet (indoor cable) will experience a cut fee.

5. Is this cable for indoor, outdoor or indoor-outdoor use? (Check One)
   - For Outdoor Cables answer questions 5A – 5B:
   - For Indoor Cables answer questions 6A – 6C:
   - For Indoor-Outdoor Cables answer questions 7A – 7B

Outdoor Cables:
5a: Select the cable construction you desire for this cable: (Check One)
   - Loose Tube
     - Gel Tubes or Gel-Free Tubes
   - Central Tube Ribbon with Gel Filled Tube (12 to 432 fibers)
   - Central Tube Ribbon with Gel-Free Tube (12 to 432 fibers)
   - Ribbon in Loose Tube (>288 to 864 fibers)
   - ADSS (All Dielectric Self-Support Cable)
   - Figure 8 Cable
   - Central Tube Cable (1-12 fibers only) 600 lb. strength
     - Gel Tubes or Gel-Free Tubes
   - Central Tube Cable (1-12 fibers only) Gel Filled 300
     - with ripcord or Gel Tubes or
     - without ripcord Gel-Free Tubes
   - Flat Drop Cable (1 – 12 fibers only)
   - Flat Drop Cable Toneable (1-12 fibers only)
5b: Select the jacket (sheath) configuration for this cable: (Check One)
- Dielectric (non-armor)
- Single Armor – Single Jacket
- Single Armor – Double Jacket
- Double Armor – Triple Jacket
- Double Jacket – Aramid Yarns between Jackets
- Double Jacket – Fiberglass Yarns between Jackets

Indoor Cables:
6a: Select the safety flame rating or special performance desired for this cable: (Check One)
- General Purpose
- Riser Rated (FT4)
- Plenum Rated (FT6)
- Low-Smoke Zero-Halogen
- Chemical Resistant
- Mining Rated (MSHA)

6b: Select the cable construction you desire for this cable: (Check One)
- Simplex (1 fiber only)
- MDU (1 fiber only)
- Zipcord (2 fibers only)
- Tight Buffered Distribution
- Tight Buffered Breakout
- Flat Ribbon Interconnect (12 fibers only)
- Round Central Tube Ribbon Riser
- Data Center (12 to 72 fibers)

6c: Do you desire the cable to be placed inside of interlock armor? (Check One)
- yes
- no

Indoor Outdoor Cables:
7a: Select the format of the fibers for this cable: (Check One)
- Loose Tube
  - Gel Tubes or Gel-Free Tubes
- Tight Buffered

Indoor Outdoor Cables:
7b: Select the safety flame rating or special performance desired for this cable: (Check One)
- Riser Rated (FT4)
- Plenum Rated (FT6)
- Low-Smoke Zero-Halogen

Tools:
8: Do you need tools to help install, open or splice your fiber cable? (Check One)
- Loose Tube Tool
- Central Tube Ribbon Tool
- Jacket Sheath Cutting Tool
## Fiber Optic Color Code Guide & Multimode Fiber Specifications

### Fiber Optic Color Code for Jackets (TIA/EIA-598)

- **MaxCap-BB-OM3**
  - 400, 800, LSZH, 525, 825, LSZH25, All Interconnect series, riser, plenum and LSZH
- **MaxCap-OM4**
  - 400, 800, LSZH, 525, 825, LSZH25, All Interconnect series, riser, plenum and LSZH
- **Enhanced Single-mode including BB-XS**
  - 400, 800, LSZH, 525, 825, LSZH25, All Interconnect series, riser, plenum and LSZH
- **Hybrid**
  - Indoor-outdoor cables and Outside Plant Cable regardless of fiber types

### Fiber Optic Color Code for Tight Buffers, Loose Tube (TIA/EIA-598)

<table>
<thead>
<tr>
<th>Position</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blue</td>
</tr>
<tr>
<td>2</td>
<td>Orange</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
</tr>
<tr>
<td>4</td>
<td>Brown</td>
</tr>
<tr>
<td>5</td>
<td>Slate (Gray)</td>
</tr>
<tr>
<td>6</td>
<td>White</td>
</tr>
<tr>
<td>7</td>
<td>Red</td>
</tr>
<tr>
<td>8</td>
<td>Black</td>
</tr>
<tr>
<td>9</td>
<td>Yellow</td>
</tr>
<tr>
<td>10</td>
<td>Violet</td>
</tr>
<tr>
<td>11</td>
<td>Rose (Pink)</td>
</tr>
<tr>
<td>12</td>
<td>Aqua (Light)</td>
</tr>
</tbody>
</table>

### Multimode Fiber Specifications

<table>
<thead>
<tr>
<th>Fiber Class</th>
<th>Fiber Type</th>
<th>1 Gb/s Link 850nm</th>
<th>10 Gb/s Link 850nm Serial</th>
<th>10 Gb/s Link 1300nm</th>
<th>10 Gb/s Link 1300nm WWDM</th>
<th>40G/100G Link 850nm Parallel links</th>
<th>Jacket Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.5 µm</td>
<td>Standard</td>
<td>275 m</td>
<td>33 m</td>
<td>300 m</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 µm</td>
<td>Standard</td>
<td>550 m</td>
<td>82 m</td>
<td>300 m</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 µm</td>
<td>MaxCap-BB-OM3</td>
<td>750 m</td>
<td>150 m</td>
<td>300 m</td>
<td>100 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 µm</td>
<td>MaxCap-OM4</td>
<td>1000 m</td>
<td>300 m</td>
<td>300 m</td>
<td>100 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 µm</td>
<td>MaxCap-BB-OM4</td>
<td>1100 m</td>
<td>550 m</td>
<td>300 m</td>
<td>100 m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OFL: Over Filled Bandwidth
EMB: Effective Modal Bandwidth
Quality Policy
Draka Communications Americas Quality Policy, Certifications & Awards

Quality Policy
Draka is committed to understanding and exceeding both our internal and external customer requirements. We will earn our customers trust by performing at the highest level of excellence in the areas of quality, service and reliability at all times. Our company will ensure this performance through the quality of our people and the tools and systems we use.

Quality Management Systems
Draka’s TL 9000 Quality Management System ensures processes are documented and that we stay focused on management responsibility, resource management, product realization measurement, analysis and improvement in all areas.

TL 9000
Draka Communications is TL 9000 certified and is an active member of the QuEST Forum.

ISO 9001
Draka Communications Americas is ISO 9001 registered at its Claremont, North Carolina operation.

ISO 14001
Draka Communications Americas is ISO 14001 registered at its Claremont, North Carolina operation.

Nuclear Rated Cable
10 CRF 21
10 CFR 50 Appendix B

Awards
2005 AT&T recognizes Draka for outstanding performance in technical innovation
2006 BellSouth recognizes Draka for exemplary service
2008 Broadband Properties recognizes Draka as an official top 100 company
2009 Draka receives “Faith in the Future” Community Award
                    Broadband Properties recognizes Draka as an official top 100 company
2010 Draka achieves ISO 14001 certification
                    Broadband Properties recognizes Draka as an official top 100 company