



Individual & Bundled Blown Optical Fiber Systems

Providing flexibility for the evolving Broadcast cabling infrastructure

Future-proof your Broadcast network infrastructure with General Cable's Blown Optical Fiber (BOF) System. Whether building new facilities or retrofitting existing ones, Blown Optical Fiber technology provides flexibility in network design, while anticipating and facilitating future changes as the network evolves. Providing significant and measurable time, cost and service benefits to the network throughout its life cycle, Blown Optical Fiber accommodates Moves, Adds and Changes (MACs) easily and quickly with minimal disruption.

General Cable's BOF System, which is offered as 2 thru 12 fibers per Microduct or as 1 thru 3 bundles of 6 fibers per Microduct solution, provides numerous advantages over conventional fiber optic systems, including the reduction of the total lifecycle cost and an increase in flexibility for the designers of fiber optic networks for Broadcast production operations.

How Does a BOF System Work?

The **Blolite® Individual Blown Optical Fiber System** is best suited for Broadcast premise applications with shorter distances that may contain tight bends and turns. This system employs a series of single or multiple empty Microduct between cable routing points; compressed air is then used to blow the optical fiber into the Microducts, which eliminates potential damage to fibers during installation. Designers have maximum flexibility regarding the number and type of fibers per Microduct. Color-coded fibers are typically supplied on master spools and cut to length during the blowing process.

The second offering is the **NextGen® Brand Bundled Blown Optical Fiber System**, which is ideal in applications that contain longer, straighter paths. Bundles are comprised of six color-coded optical fibers encapsulated in an extruded blowable jacket. Using a similar process as the Individual BOF System, one, two or three bundles can be installed per Microduct. Additionally, bundles can be "uninstalled" and repurposed elsewhere in your network.



Ensure Your Broadcast Infrastructure Can Economically Keep Pace with Emerging Technology

Safely Install in Any Environment with Compressed Air Instead of Nitrogen

IDEAL APPLICATIONS

- Broadcasting
- Recording Studios
- Television Studios
- Stadiums
- Sport Arenas



Scan or visit www.generalcable.com/BOFSystem to view a video or to request more information.

General Cable's BOF System Components

Blowable Fiber



Blowable Bundle



Microducts (5 mm OD/3 mm ID and 8 mm OD/6 mm ID)



Multiduct (Indoor- and Outdoor-rated options)

Microduct Accessories

- Straight
- 8 mm to 5 mm Reducer
- "T"
- 8 mm "Y" Divider
- End Caps
- 8 mm to 5 mm Divider Reducer
- Clip-in/Bulkhead
- Tube Cutters
- Twist Lock
- Sheath Stripping Tools

Termination Hardware



Blowing Installation Equipment



Main Advantages vs. Traditional Fiber

- Expand, upgrade, reconfigure or relocate network cabling at minimal cost and effort.
- Install empty Microduct so there is no risk of fiber damage during installation. Optical fibers are then blown into place, rather than pulled, with zero tensile stress on the fiber during the process.
- Install the fiber type you need today and easily upgrade to new grades of fiber by blowing out old optical fiber when technology changes.
- Point-to-point Microduct connections decrease splicing points, thus increasing system performance and integrity.
- Once the Microduct highway is in place, a 2-person crew (one at each end) can install Blown Optical Fiber on an as-needed basis.
- Physical damage to the cabling infrastructure from disaster does not require removal of the entire cable. Only the damaged section of Microduct is removed and replaced; within minutes, new optical fiber is blown in and terminated.

Advantages Impacting First Installed Cost:

- BOF System Microduct can be installed more easily than conventional fiber optic cable so that disruptions to the workplace can be kept to a minimum. Optical fiber can be blown in without disturbing the existing cable plant and without disrupting network services.
- The BOF System Microduct can be pulled in sections that can be easily joined together to create continuous bundles, blowing routes up to 3,280 ft. (1000 m). Even for extremely tortuous routes with hundreds of small bends, the Individual BOF System uses fiber that can be blown in continuous runs of nearly 1,475 ft. (450 m).
- Microduct that meets outside plant cable requirements can easily be mechanically joined to Microduct that meets indoor building requirements. Fiber can then be continuously blown through a duct route that includes both indoor and outdoor portions, decreasing splicing points.

Advantages Impacting Lifetime System Cost:

- With General Cable's BOF System, fiber can be installed to meet today's standard and then economically replaced or new fiber added as fiber performance improves in the future.
- The flexibility of blown fiber ensures installed Microduct will never need to be abandoned. Future network topology changes can be addressed by joining new sections of Microduct to configure new route paths as needed.

Call us today at +1 800.424.5666 to learn more about our Individual and Bundled Blown Optical Fiber System solutions.



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