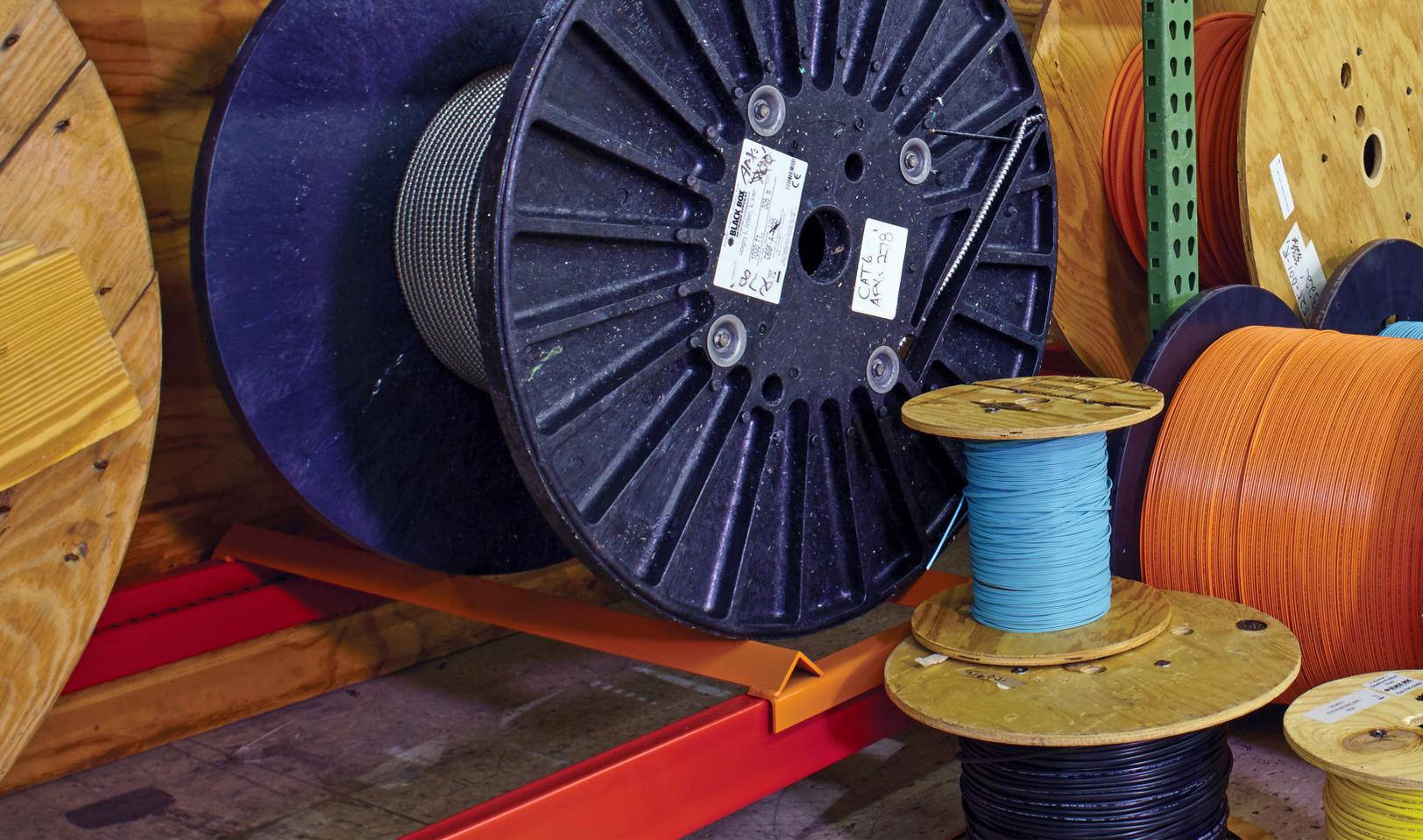


# FIBER OPTIC CABLE

CUT TO YOUR EXACT SPECS TO  
SAVE YOU TIME AND MONEY



# ADVANTAGES OF FIBER OPTIC CABLE

Fiber optic cable is the preferred choice for backbone and horizontal applications. Black Box provides a wide selection of high-quality, guaranteed-for-life distribution tight buffer indoor and indoor/outdoor cable and loose-tube outdoor cable.

And, when you order from Black Box, you get the maximum value because you can specify the length of your cable with no minimums. Why pay for more than you need when you can cut installation time and reduced waste with cut-to-length bulk fiber optic cable from Black Box?

## RELIABLE

Fiber optic cable provides extremely reliable data transmission with greater bandwidth and fidelity than copper wire.

## VERSATILE

Fiber optic cable can be relied upon in almost any environment. It can withstand harsh temperatures, be submerged, and it is immune to interference.

## EXTENDED

Data can be transmitted through fiber optic cable for up to 25 miles with little or no signal loss.

## SECURE

Your data is safer with fiber optic cable; any attempt to breach the physical security of your system will be immediately apparent.

## SLENDER

Fiber optic cable is lightweight, thin, and easy to handle. Its slender profile makes installation and upgrades fast and easy.





# WHY BLACK BOX

## LIFETIME GUARANTEE

No questions asked. All Black Box bulk fiber cable is guaranteed for life.

## TRUSTED SINCE 1976

As a leading technology solutions provider, Black Box is dedicated to helping customers build, manage, optimize, and secure IT infrastructures.

## FREE 24/7 SUPPORT

At Black Box we are committed to your complete satisfaction. Our dedicated team of highly-trained support technicians is available 24/7.

## CUSTOM LENGTHS

Costly 500- and 1,000-meter minimum lengths are a thing of the past at Black Box. No minimum lengths means you only buy the amount of cable you need.

## IN STOCK

With the extensive selection of cable in stock at Black Box, there is no longer any need to wait four to six weeks for delivery.

## SAME-DAY SHIPPING

In-stock cable orders placed by 10 AM Eastern time will be shipped the same day.

## BEND-INSENSITIVE FIBER

Make installation easier and ensure top performance with bend-insensitive fiber.

## PLAN YOUR FIBER CHANNEL

Complete your fiber infrastructure with patch cables, connectors, adapters, panels, and enclosures from Black Box.



# INDOOR FIBER CABLE

BACKBONE, HORIZONTAL, PATCHING AND HARSH-ENVIRONMENT RUNS

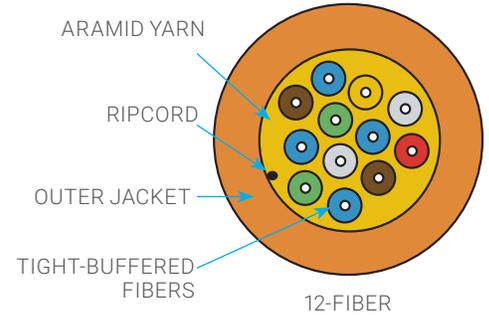
GUARANTEED-FOR-LIFE

## INDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED

Designed for intrabuilding backbone runs.

- Ideal for runs between wiring closets and equipment rooms.
- Terminate into loaded patch panels and enclosures.

Glass Type	GbE @ 850 nm	GbE @ 1300 nm	10-GbE @ 850 nm
OM1	300 m	550 m	–
OM3	1000 m	550 m	300 m
OM4	1040 m	550 m	550 m
OS2	–	5000 m	–

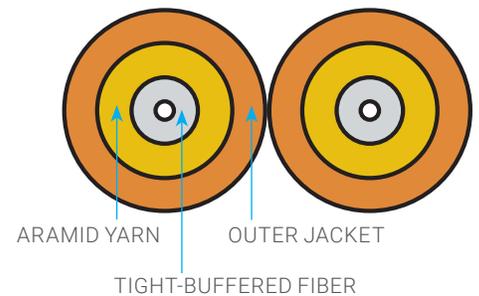


## GENERAL PURPOSE ZIPCORD CABLE

Zipcord cable for patching, desktop, and backbone connections.

- Use for connections from the closet to the wall outlet on to the desktop.
- Use with either LED or laser light sources.

Glass Type	GbE @ 850 nm	GbE @ 1300 nm	10-GbE @ 850 nm
OM1	300 m	550 m	–
OM3	1500 m	500 m	300 m
OM4	3500 m	550 m	550 m
OS2	–	5000 m	–

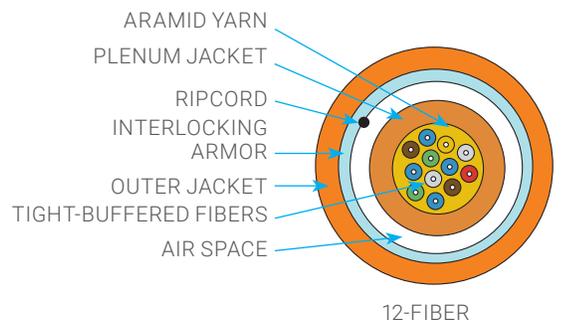


## INDOOR INTERLOCKING ARMORED DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED

Interlocking armored cable runs anywhere in the building – no ducts required.

- Save on labor and materials. Pull this cable once instead of having to pull conduit before cable.
- Cables are rodent resistant.

Glass Type	GbE @ 850 nm	GbE @ 1300 nm	10-GbE
OM1	300 m	550 m	32 m @ 850 nm
OM3	1000 m	550 m	300 m @ 850 nm
OS2	–	5000 m	10000 m @ 1300 nm





OM1 62.5-MICRON MULTIMODE



OM3 AND OM4 50-MICRON MULTIMODE

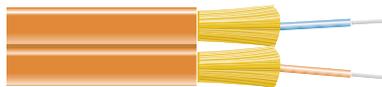


OS2 9-MICRON SINGLE-MODE

### INDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED, CUSTOM LENGTHS

OM1 62.5-Micron Multimode					
OFNP Plenum			OFNR PVC		
6-Fiber	FOBC55-INM1-OR-06F		6-Fiber	FOBC45-INM1-OR-06F	
12-Fiber	FOBC55-INM1-OR-12F		12-Fiber	FOBC45-INM1-OR-12F	
24-Fiber	FOBC55-INM1-OR-24F		24-Fiber	FOBC45-INM1-OR-24F	
OM3 Laser-Optimized 50-Micron					
OFNP Plenum			OFNR PVC		
6-Fiber	FOBC55-INM3-AQ-06F		6-Fiber	FOBC45-INM3-AQ-06F	
12-Fiber	FOBC55-INM3-AQ-12F		12-Fiber	FOBC45-INM3-AQ-12F	
24-Fiber	FOBC55-INM3-AQ-24F		24-Fiber	FOBC45-INM3-AQ-24F	
OM4 Laser-Optimized 50-Micron Multimode					
OFNP Plenum			OFNR PVC		
6-Fiber	FOBC55-INM4-AQ-06F		6-Fiber	FOBC45-INM4-AQ-06F	
12-Fiber	FOBC55-INM4-AQ-12F		12-Fiber	FOBC45-INM4-AQ-12F	
24-Fiber	FOBC55-INM4-AQ-24F		24-Fiber	FOBC45-INM4-AQ-24F	
OS2 9-Micron Single-Mode					
OFNP Plenum			OFNR PVC		
6-Fiber	FOBC55-INSM-YL-06F		6-Fiber	FOBC45-INSM-YL-06F	
12-Fiber	FOBC55-INSM-YL-12F		12-Fiber	FOBC45-INSM-YL-12F	
24-Fiber	FOBC55-INSM-YL-24F		24-Fiber	FOBC45-INSM-YL-24F	

**NOTE:** Other fiber counts are available on request.



OM1 62.5-MICRON MULTIMODE



OM3 AND OM4 50-MICRON MULTIMODE



OS2 9-MICRON SINGLE-MODE

### GENERAL-PURPOSE ZIPCORD CABLE, 2-MM, CUSTOM LENGTHS

OM1 62.5-Micron Multimode	OFNR PVC Riser	FOBC45-ZPM1-OR-02F
	OFNP Plenum	FOBC55-ZPM1-OR-02F
OM3 50-Micron Multimode	OFNR PVC Riser	FOBC45-ZPM3-AQ-02F
	OFNP Plenum	FOBC55-ZPM3-AQ-02F
OM4 50-Micron Multimode	OFNR PVC Riser	FOBC45-ZPM4-AQ-02F
	OFNP Plenum	FOBC55-ZPM4-AQ-02F
OS2 9-Micron Single-Mode	OFNR PVC Riser	FOBC45-ZPSM-YL-02F
	OFNP Plenum	FOBC55-ZPSM-YL-02F



OM1 62.5-MICRON MULTIMODE



OM3 50-MICRON MULTIMODE



OS2 9-MICRON SINGLE-MODE

### INDOOR INTERLOCKING ARMORED DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED, CUSTOM LENGTHS

OM1 62.5-Micron Multimode	6-Fiber	FOBC35-INAM1-OR-06F
	12-Fiber	FOBC35-INAM1-OR-12F
	24-Fiber	FOBC35-INAM1-OR-24F
OM3 50-Micron Multimode	6-Fiber	FOBC35-INAM3-AQ-06F
	12-Fiber	FOBC35-INAM3-AQ-12F
	24-Fiber	FOBC35-INAM3-AQ-24F
OS2 9-Micron Single-Mode	6-Fiber	FOBC35-INASM-YL-06F
	12-Fiber	FOBC35-INASM-YL-12F
	24-Fiber	FOBC35-INASM-YL-24F

**NOTE:** Other fiber counts are available on request.



# INDOOR/OUTDOOR FIBER CABLE

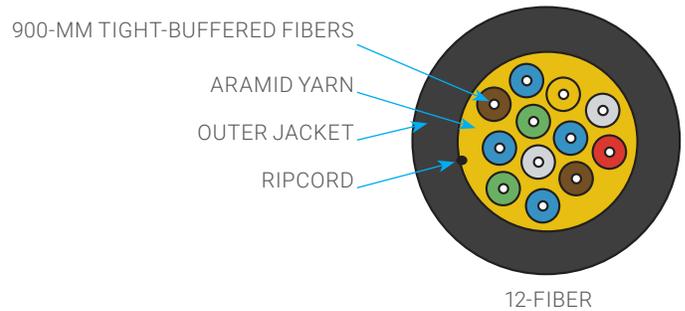
CAMPUS NETWORK CABLING RUNS BETWEEN AND WITHIN BUILDINGS

GUARANTEED-FOR-LIFE

## INDOOR/OUTDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED

Plenum rated to run between and within buildings.

- No need to terminate within 50 feet (15.2 m) of building entrances.
- Cables are water-blocked and meet GR-20-CORE and ICEA S-104-696 water penetration requirements.
- Jacket resists fungus and moisture. UV stabilizer guards against sun exposure.
- Follows TIA-598-C color standard.



## INTERLOCKING ARMORED INDOOR/OUTDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED

Interlocking armored cable is rodent resistant.

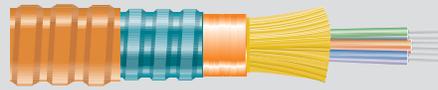
- Cables are water-blocked and meet GR-20-CORE for water penetration.
- Inner jacket is flame-retardant and resists UV rays, fungus, and moisture.
- No need to terminate within 50 feet (15.2 m) of building entrances.
- Outer plenum jacket has aluminum interlocking armor.



## BLACK BOX EXPLAINS: THREE TYPES OF INDOOR AND OUTDOOR CABLE



INDOOR/OUTDOOR



INTERLOCKING ARMORED

Indoor/outdoor cable is designed for use in aerial, duct, tray, plenum, and riser applications. Dry-block technology seals ruptures and locks out moisture seepage while gel-filled buffer tubes halt moisture migration.

Interlocking armored cable is rugged and rodent resistant making it an ideal solution for any environment from building interiors to harsh, isolated environments. Its aluminum interlocking armor jacket eliminates the need for conduits and innerducts, reducing costs.

**INDOOR/OUTDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED OFNP PLENUM, CUSTOM LENGTHS**

OM1 62.5-Micron Multimode	6-Fiber	FOBC55-IOM1-BK-06F
	12-Fiber	FOBC55-IOM1-BK-12F
	24-Fiber	FOBC55-IOM1-BK-24F
OM3 Laser-Optimized 50-Micron Multimode	6-Fiber	FOBC55-IOM3-BK-06F
	12-Fiber	FOBC55-IOM3-BK-12F
	24-Fiber	FOBC55-IOM3-BK-24F
OM4 Laser-Optimized 50-Micron Multimode	6-Fiber	FOBC55-IOM4-BK-06F
	12-Fiber	FOBC55-IOM4-BK-12F
	24-Fiber	FOBC55-IOM4-BK-24F
OS2 9-Micron Single-Mode 50-Micron	6-Fiber	FOBC55-IOSM-BK-06F
	12-Fiber	FOBC55-IOSM-BK-12F
	24-Fiber	FOBC55-IOSM-BK-24F

**NOTE:** Other fiber counts are available on request.

**INTERLOCKING ARMORED INDOOR/OUTDOOR DISTRIBUTION-STYLE CABLE, TIGHT-BUFFERED OFNP PLENUM, CUSTOM LENGTHS**

OM1 62.5-Micron Multimode	6-Fiber	FOBC35-IOAM1-BK-06F
	12-Fiber	FOBC35-IOAM1-BK-12F
	24-Fiber	FOBC35-IOAM1-BK-24F
OM3 Laser-Optimized 50-Micron Multimode	6-Fiber	FOBC35-IOAM3-BK-06F
	12-Fiber	FOBC35-IOAM3-BK-12F
	24-Fiber	FOBC35-IOAM3-BK-24F
OS2 9-Micron Single-Mode	6-Fiber	FOBC35-IOASM-BK-06F
	12-Fiber	FOBC35-IOASM-BK-12F
	24-Fiber	FOBC35-IOASM-BK-24F

**NOTE:** Other fiber counts are available on request.



6-FIBER

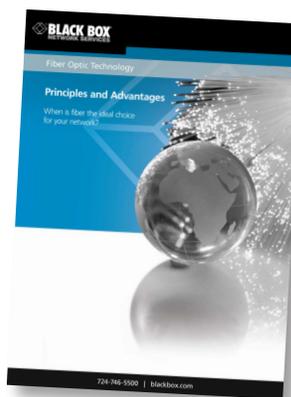


6-FIBER



OUTSIDE PLANT

Outside-plant cable delivers optimal performance for direct burials and extreme conditions. Terminated within 50 feet of building entrances, outside-plant cable is rodent resistant and uses dry blocking, absorbent tape, or powder to block water. Armored varieties require grounding and aerial applications include messenger strength members.



**FIBER OPTIC TECHNOLOGY**

Would you like to know more about fiber optic cable? Download this informative white paper at [blackbox.com/WPFiber](http://blackbox.com/WPFiber).



# OUTDOOR FIBER CABLE

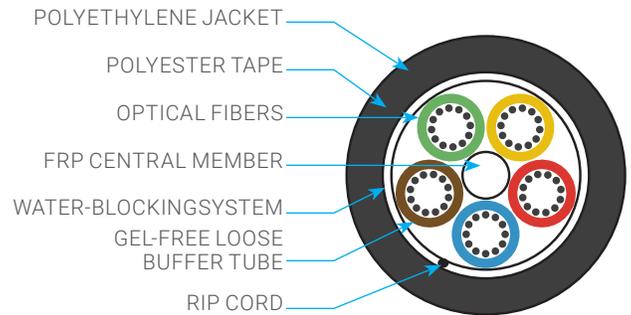
DESIGNED FOR RUNS BETWEEN BUILDINGS IN A CAMPUS ENVIRONMENT

GUARANTEED-FOR-LIFE

## OUTDOOR CABLE, LOOSE-TUBE

Gel-free, loose-tube cables designed for aerial installations or ducts.

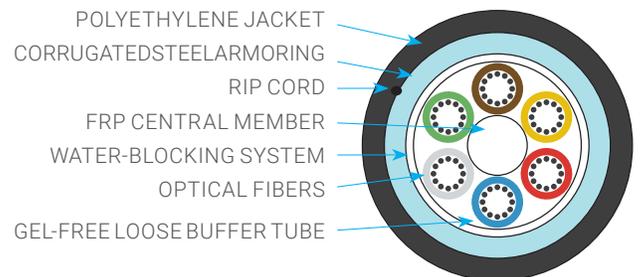
- Cable incorporates the latest dry water-absorption technology in buffer tubes resulting in easier handling and terminations.
- UV-stabilized outer jacket resists sub-damage for long-term performance in aerial applications.
- Gel-free buffer tubes reduce fiber prep termination time.
- SZ-stranded cable core for easy mid-span access of fiber.



## ARMORED OUTDOOR CABLE, LOOSE-TUBE

Use in direct burial, duct, and aerial lashed outside-plant infrastructures.

- Use between buildings in campus settings.
- Cables are water-blocked and meet GR-20-CORE for water penetration.
- Gel-free buffer tubes reduce fiber termination time.
- Corrugate steel armor is crush and rodent resistant in direct-bury applications.



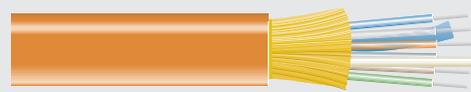
## BLACK BOX EXPLAINS: LOOSE-TUBE VS. TIGHT-BUFFERED CABLE



LOOSE-TUBE

Fiber optic cable can be constructed as loose-tube or tight-buffer. Both types contain a strengthening member which will depend on the intended environment: aramid yarn, stainless steel wire strands, or gel-filled sleeves.

**Loose-tube cable** is designed for harsh outdoor environments. It protects the fiber core, cladding, and coating by enclosing everything within semi-rigid protective sleeves or tubes. Many loose-tube cables also have a water-resistant gel that surrounds the fibers to protect them from moisture, which makes loose-tube cable great for harsh, high-humidity environments where water or condensation can be a problem. The gel-filled tubes can also expand and contract with temperature changes.

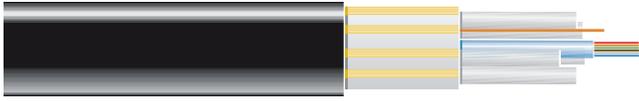


TIGHT-BUFFERED

But gel-filled loose-tube cable is not the best choice when cable needs to be routed around multiple bends, which is often true in indoor applications. Excess cable strain can force fibers to emerge from the gel.

**Tight-buffered cable** is best suited for moderate-length LAN/WAN connections or long indoor runs. It's easier to install because there's no gel to clean up and it doesn't require a fan-out kit for splicing or termination. You can install connectors directly to each fiber.

When making the transition from outdoor cable to indoor, the loose tube will be connected to a box at the entrance point. The run is connected to tight-buffered cable to be used indoor.



6-FIBER

Glass Type	GbE @ 850 nm	GbE @ 1,300 nm
OM1	300 m	550 m
OS2	—	5000 m

#### OUTDOOR CABLE, LOOSE-TUBE, CUSTOM LENGTHS

OM1 62.5-Micron Multimode	6-Fiber	FOBC35-ODM1-BK-06F
	12-Fiber	FOBC35-ODM1-BK-12F
	24-Fiber	FOBC35-ODM1-BK-24F
OS2 9-Micron Single-Mode	6-Fiber	FOBC35-ODSM-BK-06F
	12-Fiber	FOBC35-ODSM-BK-12F
	24-Fiber	FOBC35-ODSM-BK-24F

**NOTE:** Other fiber counts are available on request.



24-FIBER

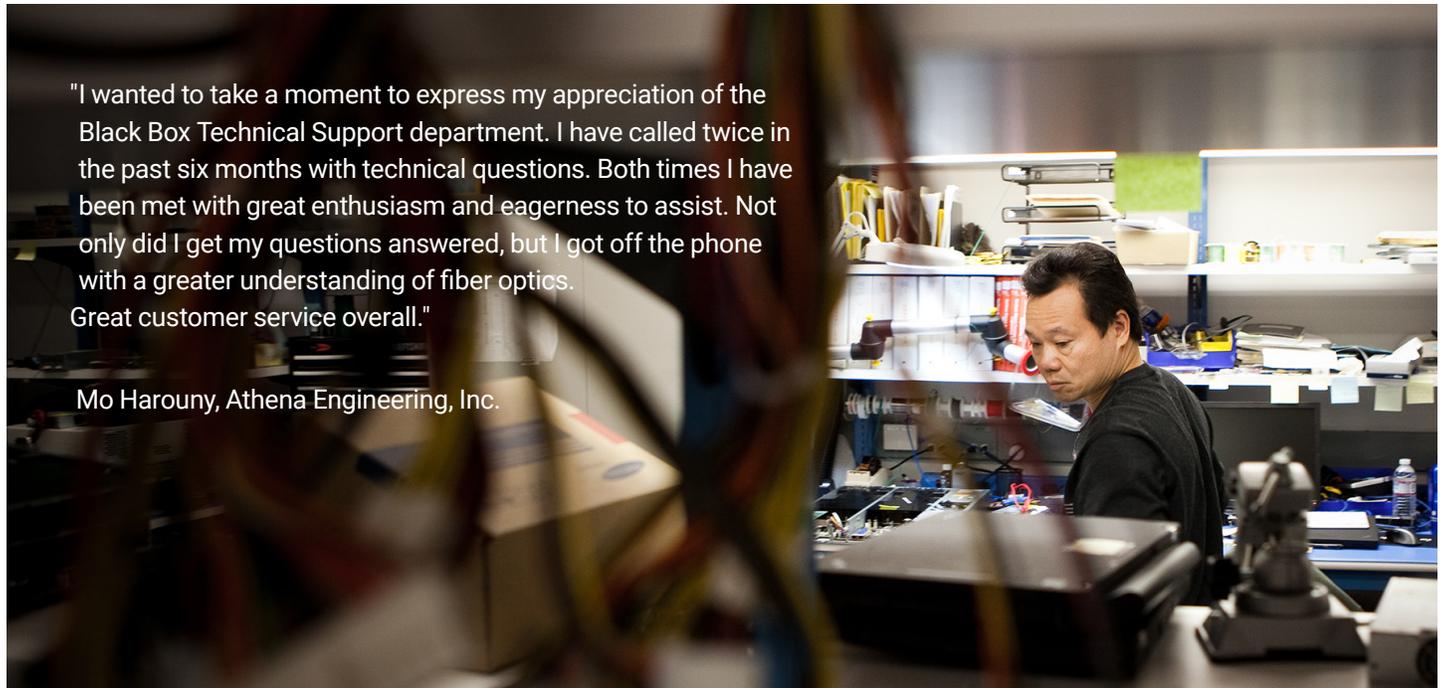
#### ARMORED OUTDOOR CABLE, LOOSE-TUBE, CUSTOM LENGTHS

OM1 62.5-Micron Multimode	6-Fiber	FOBC35-ODAM1-BK-06F
	12-Fiber	FOBC35-ODAM1-BK-12F
	24-Fiber	FOBC35-ODAM1-BK-24F
OS2 9-Micron Single-Mode	6-Fiber	FOBC35-ODASM-BK-06F
	12-Fiber	FOBC35-ODASM-BK-12F
	24-Fiber	FOBC35-ODASM-BK-24F

**NOTE:** Other fiber counts are available on request.

"I wanted to take a moment to express my appreciation of the Black Box Technical Support department. I have called twice in the past six months with technical questions. Both times I have been met with great enthusiasm and eagerness to assist. Not only did I get my questions answered, but I got off the phone with a greater understanding of fiber optics. Great customer service overall."

Mo Harouny, Athena Engineering, Inc.



# ACCESSORIES

THE RIGHT ACCESSORIES TO TERMINATE FIBER CABLE  
INSIDE YOUR BUILDING.

## NEMA-4 RATED FIBER WALLMOUNT ENCLOSURES

Protect and terminate fiber cable in damp environments.



- Use a transition box to protect and terminate fiber cable.
- NEMA-4 rated for use in damp environments, basements, and below-ground floors prone to water leakage and seepage.
- Water-tight cable openings prevent condensation and moisture from entering.
- Mount on solid surfaces, such as cinder block walls.

### NEMA-4 FIBER WALLMOUNT ENCLOSURES

2 Panels	JPM4001A-R2
4 Panels	JPM4000A-R2
<b>NEMA-4 SPLICE TRAY</b>	<b>JPM4002A</b>

## RACKMOUNT FIBER CABINET

Connect up to 288 fibers for high-density applications.



- 3U enclosure holds 12 standard adapter panels or MTP® MPO-style fiber cassettes.

### RACKMOUNT FIBER CABINET

3U, 12 Adapter Panels/Cassettes	JPM406A-R6
---------------------------------	------------

## SPLICE TRAYS

Make splices on 12 to 24 fibers.



- Use with single-mode or multimode fiber.
- Mount inside fiber enclosures.
- Includes a protective lid.

### SPLICE TRAYS

12 Fiber	JPM441A
24 Fiber	JPM440A



## FIBER OPTIC CASSETTES AND ADAPTER PANELS

Make high-density network connections.



### OM3 50-MICRON MTP® MPO-STYLE CASSETTES (LGX) (MTP TO LC)

12 Fiber	12 Strand MTP to (6) LC Duplex Pairs, Type A	FOCA20M3-1MP12-12LC
	2 x 12 Strand MTP to (12) LC Duplex Pairs, Type A	FOCA20M3-2MP12-24LC
24 Fiber	24 Strand MTP to (12) LC Duplex Pairs, Type A	FOCA20M3-1MP24-24LC
	24 Strand MTP to (12) LC Duplex Pairs, Type B	FOCA25M3-1MP24-24LC

### HIGH-DENSITY FIBER OPTIC ADAPTER PANELS

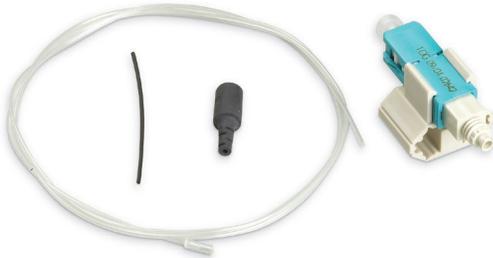
(12) LC Duplex	Aqua	JPM468C
	Beige	JPM467B-R2
	Blue	JPM467C-R2

**NOTE:** Many more adapter panels are available at [blackbox.com](http://blackbox.com).

## PRE-POLISHED FIBER CONNECTORS

Terminate fiber in a minute.

- No more hand polishing in the field.
- Easy assembly; no need for epoxy.
- Fiber can be resealed.

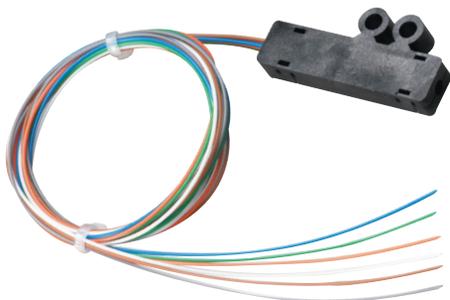


### PRE-POLISHED FIBER OPTIC CONNECTORS, 6-PACK

OM1 62.5 5-Micron Multimode	SC	PP-SC-625MM-6PAK
	ST	PP-ST-625MM-6PAK
	LC	PP-LC-625MM-6PAK
OM2 50-Micron Multimode	SC	PP-SC-50MM-6PAK
	ST	PP-ST-50MM-6PAK
	LC	PP-LC-50MM-6PAK
OM3 50-Micron Multimode	SC	PP-SC-50MM-10G-6PAK
	ST	PP-ST-50MM-10G-6PAK
	LC	PP-LC-50MM-10G-6PAK
OS2 9-Micron Single-Mode	SC	PP-SC-SM-6PAK
	LC	PP-LC-SM-6PAK

## FAN-OUT KITS

Prepare 6- or 12-fiber loose-tube cables for field termination.



- Color-coded fan-out tubing makes it easy to keep track of connections.
- Snap-together unit, no epoxy needed.

### FAN-OUT KITS

6-Fiber Buffer Tube	25-inch	EFN06-24
	36-inch	EFN06-36
12-Fiber Buffer Tube	25-inch	EFN12-24
	36-inch	EFN12-36

