

**EVERYTHING**   
Connect. Control. Converge.

# Fiber Cable Product Selector

Choose the Right  
Tool for the Job



## OM3 (EB Optical Fiber)

Recommended for short-term installations (~5 years) supporting a limited number of 10Gbps network drops and a relatively low density of IP devices.



BERK-TEK

40Gbps 100 meters \$

\$ Relative link cost including

TxRx Fiber Assembly TxRx

Assumes 100m @ 40Gbps with Berk-Tek transceivers

## OM4 (FB Optical Fiber)

A good choice for longer-term installations (5-10 years) supporting a sizable number of 10Gbps network drops, and a medium density of IP devices.



BERK-TEK

40Gbps 150 meters \$ +3%

**Berk-Tek**<sup>®</sup>  
A NEXANS COMPANY  
[www.berktek.us/EverythingIP](http://www.berktek.us/EverythingIP)

## OM4+ (XB Optical Fiber)

A better choice for long-term installations (10yrs+) supporting a high concentration of 10Gbps network drops and IP devices. \*500m with XB Fiber + Enhanced TxRx. 300m without Enhanced TxRx.



BERK-TEK

40Gbps 500 meters\* \$ +6%

## OS2 (Single-Mode)

The ultimate choice for long-term installation (10yrs+) and supporting extremely high bandwidth with reach requirements up to 10,000 meters.



BERK-TEK

40/100/400Gbps 10,000 meters \$\$\$

BANDWIDTH

REACH

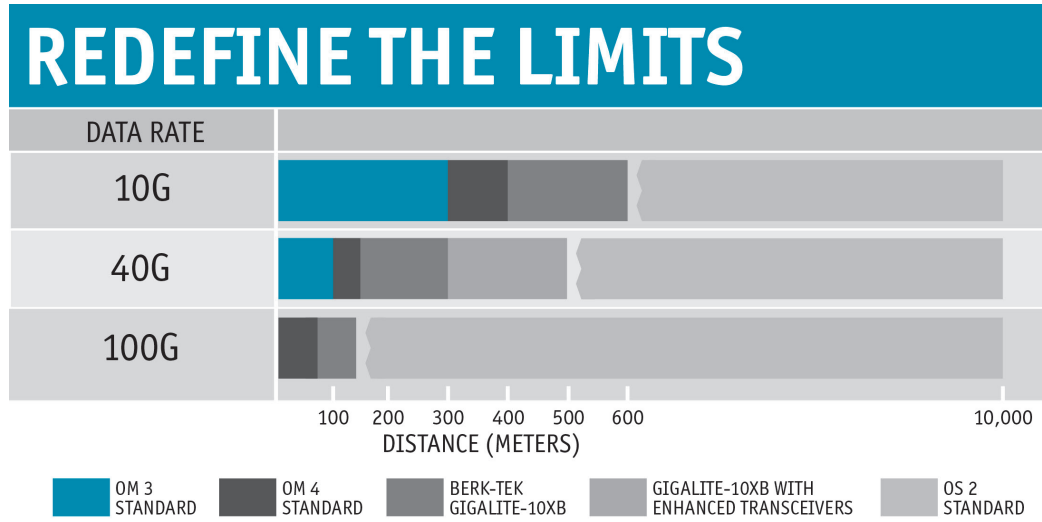
COST



# OM3 (EB Optical Fiber)

## A low-cost, short-term solution

Recommended for short-term installations (5 years or less) supporting a limited number of 10Gbps network drops and a relatively low density of IP devices.



### Fiber Cable Part Numbering System

OM3 (EB): Tight Buffer, Indoor/Outdoor, OFNP or OFCP, Water Blocked, UV Resistant

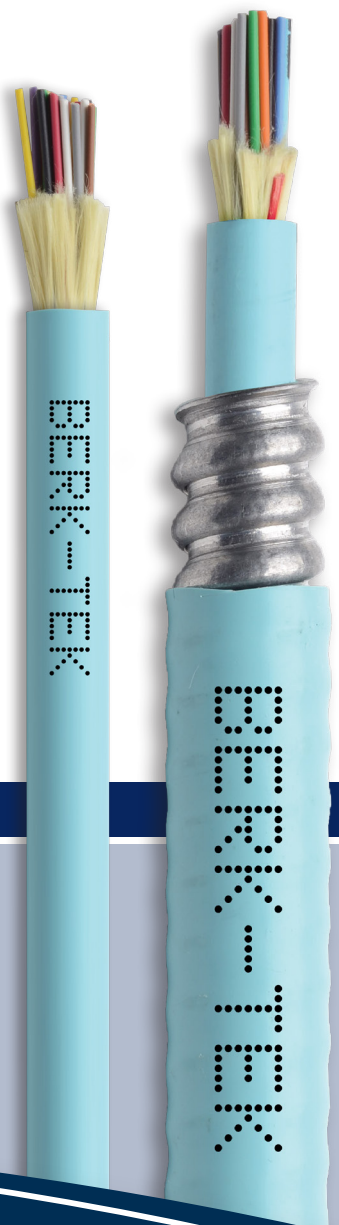
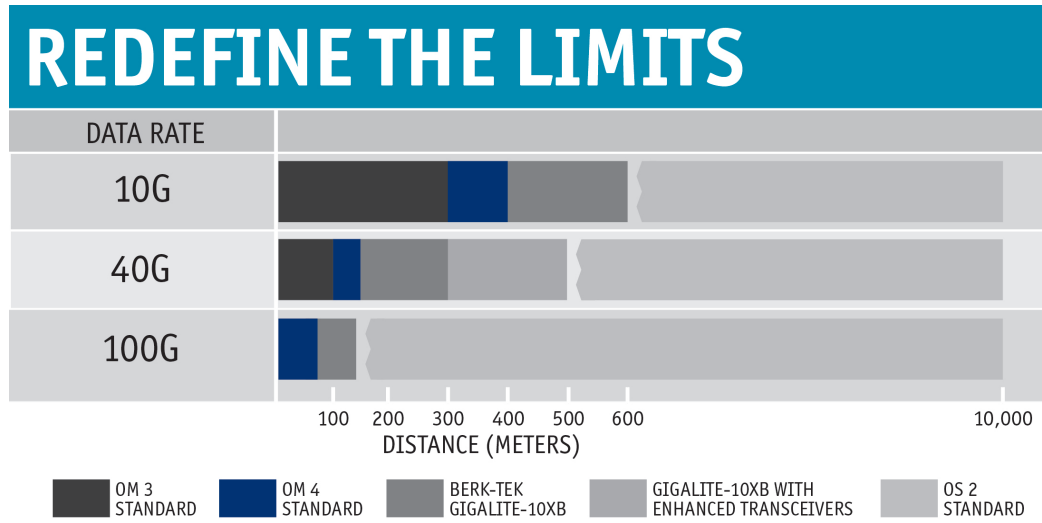
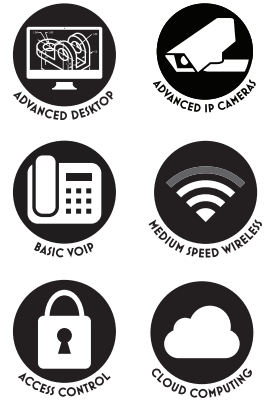
CABLE FAMILY	+	CABLE OPTIONS	+	FIBER COUNT	+	FIBER TYPE	+	SUFFIX	+	COLOR	=	Part Number		
Standard	+	PD	+	P	+	024	+	EB3010/25	+	I/O	+	C4(AQU)	=	PDP024EB3010/25-I/O-C4(AQU)
Armored	+	PD	+	PK	+	024	+	EB3010/25	+	I/O	+	C4C5(AQU)	=	PDPK024EB3010/25-I/O-C4C5(AQU)



# OM4 (FB Optical Fiber)

## A good choice for longer-term installations

A good choice for longer-term installations (5-10 years) supporting a sizable number of 10Gbps network drops and a medium density of IP devices.



### Fiber Cable Part Numbering System

OM4 (FB): Tight Buffer, Indoor/Outdoor, OFNP or OFCP, Water Blocked, UV Resistant

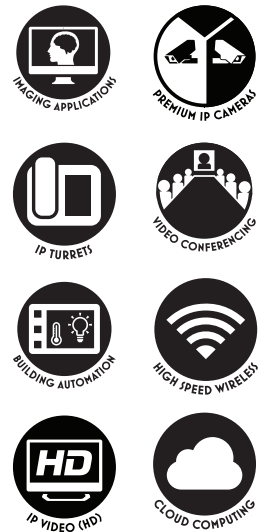
CABLE FAMILY	+	CABLE OPTIONS	+	FIBER COUNT	+	FIBER TYPE	+	SUFFIX	+	COLOR	=	Part Number
Standard	+	P	+	024	+	FB3010/F5	+	I/O	+	C4(AQU)	=	PDP024FB3010/F5-I/O-C4(AQU)
Armored	+	PK	+	024	+	FB3010/F5	+	I/O	+	C4C5(AQU)	=	PDPK024FB3010/F5-I/O-C4C5(AQU)



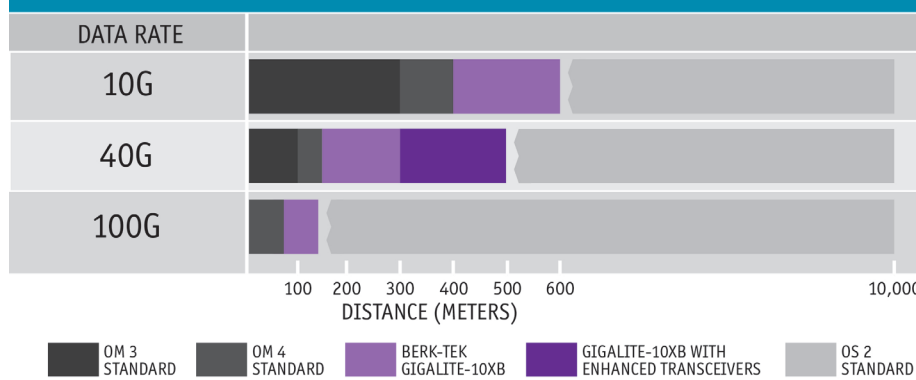
# OM4+ (XB Optical Fiber)

## A better choice for long-term installations

A better choice for long-term installations (10 or more years) supporting a high concentration of 10Gbps network drops and IP devices.



### REDEFINE THE LIMITS



Berk-Tek GIGALite glass is uniquely designed with tighter tolerances than the standards. That means less insertion loss and up to 20% more power budget. For maximum flexibility and unsurpassed power budget, add Berk-Tek transceivers for a reach of up to 500 meters at 40G.

### Fiber Cable Part Numbering System

OM4+ (XB): Tight Buffer, Indoor/Outdoor, OFNP or OFCP, Water Blocked, UV Resistant

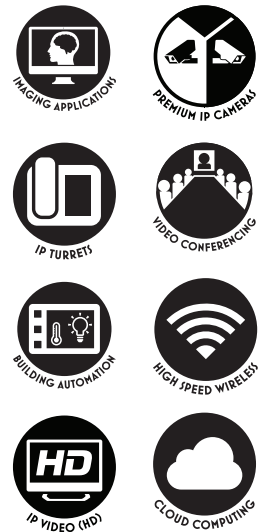
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Standard	+	P	+	024	+	XB3010/X5	+	I/O	+	C4(AQU)	=	PDP024XB3010/X5-I/O-C4(AQU)
Armored	+	PK	+	024	+	XB3010/X5	+	I/O	+	C4C5(AQU)	=	PDPK024XB3010/X5-I/O-C4C5(AQU)



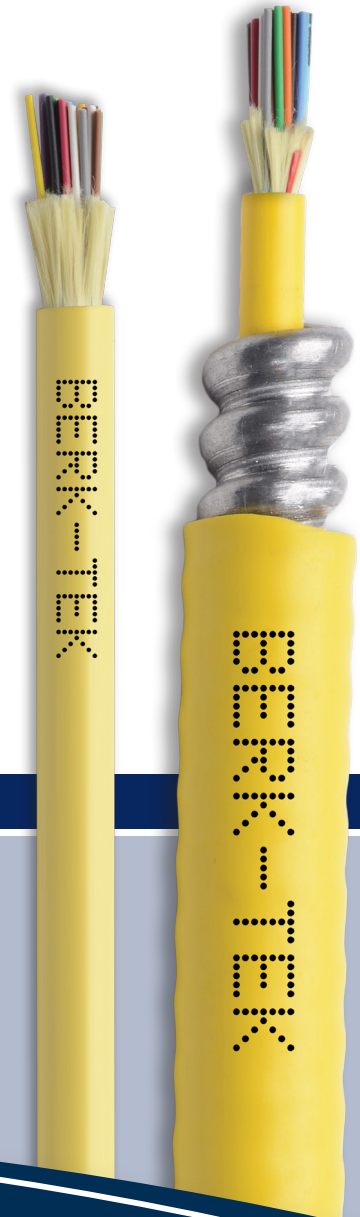
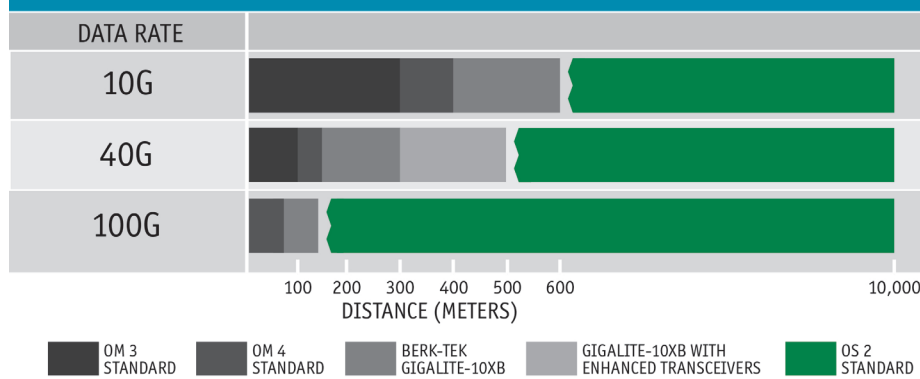
# OS2 (Single-Mode)

## The ultimate choice for long-term installations

The ultimate choice for long-term installations (10 or more years) supporting extremely high bandwidth with reach requirements up to 10,000 meters.



### REDEFINE THE LIMITS



Single-mode fiber is considered to be bandwidth-unlimited, but with the higher cost of connectivity and optics, single-mode, as a solution, can be up to three times more expensive than multimode. To access Berk-Tek's easy-to-use Own the Link Cost Savings calculator, visit [www.berktektransceivers.com](http://www.berktektransceivers.com).

### Fiber Cable Part Numbering System

*OS2 (SM): Tight Buffer, Indoor/Outdoor, OFNP or OFCP, Water Blocked, UV Resistant*

CABLE FAMILY	+	CABLE OPTIONS	+	FIBER COUNT	+	FIBER TYPE	+	SUFFIX	+	COLOR	=		
Standard :	PD	+	P	+	024	+	AB0707	+	I/O	+	(YEL)	=	<i>PDP024AB0707-I/O(YEL)</i>
Armored :	PD	+	PK	+	024	+	AB0707	+	I/O	+	(YEL)	=	<i>PDPK024AB0707-I/O(YEL)</i>



# Simplify with Berk-Tek

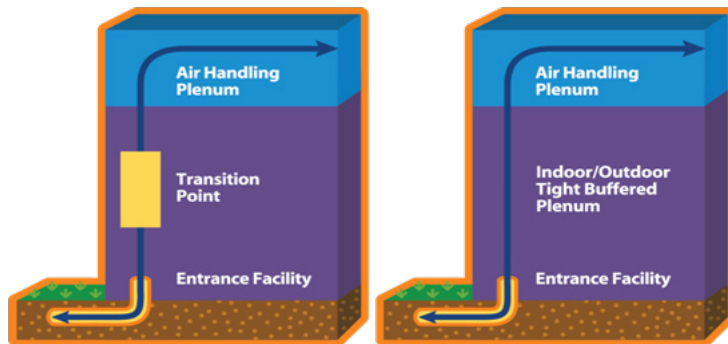
## Plenum Indoor/Outdoor Cables

Installing fiber cables in the enterprise presents unique challenges for designers and contractors.

Berk-Tek's Plenum Indoor/Outdoor (I/O) Fiber Cables are designed for installation in Plenum or Riser environments, as well as Inter-building Backbone connections. They may connect equipment rooms **without the transition point needed when using traditional OSP cable.**

Berk-Tek's water-blocked, plenum I/O cables feature UV and fungus resistant jackets and an operating temperature down to -40° C. These thermoplastic jacketed cables are suitable for

### Plenum I/O: No Transition Point Required



Traditional OSP Inter-Building Backbone

Tight-Buffer Inter-Building Backbone

installations in conduit, below the frost line. Berk-Tek recommends a maximum distance of 600 meters for these cables. For distances longer than 600 meters, or for fiber counts between 144-432, Berk-Tek Adventum™ loose tube cables provide the ideal solution.

**Berk-Tek's Plenum I/O cables reduce the material and labor costs by up to 40% over those that come with a traditional installation.** Also available with aluminum interlocking armor (Armor-Tek), Berk-Tek's armored Plenum I/O cables present tremendous value when compared to traditional methods of installing cable inside of innerduct.

Indoor/Outdoor cables have fewer cross-connect points, and no transition point. Consequently, they offer lower system loss. Berk-Tek's Plenum I/O tight buffered cables are intended for all high speed data applications.

The flexible, small diameter, 900 µm tight buffered designs of these cables also make them easy to install and terminate, saving time and money.

## Berk-Tek Plenum Indoor/Outdoor Cables

Tight Buffer, Indoor/Outdoor, OFNP or OFCP, Water Blocked, UV Resistant





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