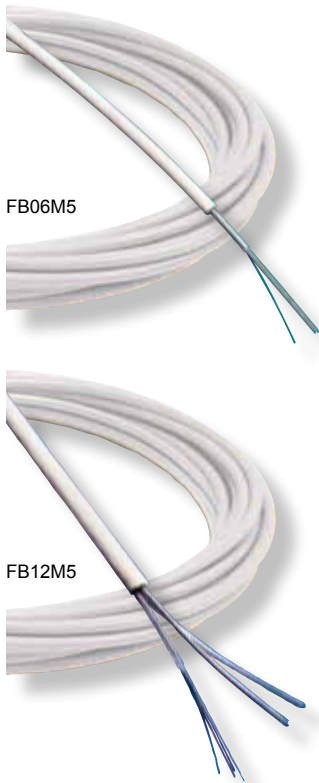


# Fiber Bundles

## Multimode 50 $\mu$ m



### Features

- Up to 24 fibers per bundle
- Industry standard 50  $\mu$ m graded-index multimode optical fiber
- Fibers individually color coded per TIA standards
- White aerodynamic jacket allows long distance blows
- Ripcords for easy bundle entry
- UL listed for use with fire-rated tube cables

- Meets ICEA, TIA and UL standards
- Meets IEEE 802.3z Gigabit Ethernet standard.

### Applications

These small fiber bundles are designed for installation into the FutureFLEX Air-Blown Fiber tube cable infrastructure. Operating wavelengths are 850 and 1300 nm. They can be used in indoor and outdoor applications.

### Specifications

Property	Specification		
Fiber Bundle Jacket material	Polyethylene Extruded Foam (PEF)		
Fiber Bundle Jacket color	White for 1 Gigabit fiber		
Core diameter	50 micron		
Cladding diameter	125 micron		
Buffer / acrylate diameter	250 micron		
Maximum Attenuation at 850 / 1300 nm	< 3.5 / 1.0 dB/km		
Fiber Bandwidth at 850 / 1300 nm	$\geq$ 500 / 500 MHz-km		
Min. Bandwidth (overfilled launch)	Std. Grade	850 nm	500 MHz*km
		1300 nm	500 MHz*km
Min. Gigabit Ethernet Distance	Std. Grade	850 nm	550 m
		1310 nm	550 m
Group Index of Refraction	850 nm	1.483	
	1300 nm	1.479	
Operation Temperature Range	-40° F to +158° F (-40° C to +70° C)		
Fiber Bundle Minimum Bend Radius	1.5"		

### Physical Characteristics

Part Number	Fiber Type	Description	Outside Diameter (in./mm.)	Max. Weight (lbs./kft.)	Std. Length	Max. Length
FR02M5	50/125 OM2	Multimode 2-fiber (Ribbon)	0.08 / 2.0	0.4	14,000	~16,000
FB04M5	50/125 OM2	Multimode 4-fiber	0.08 / 2.0	1.3	14,000	~16,000
FB06M5	50/125 OM2	Multimode 6-fiber	0.08 / 2.0	1.3	14,000	~16,000
FB12M5	50/125 OM2	Multimode 12-fiber	0.12 / 3.0	3.4	7,000	~9,000
FB18M5	50/125 OM2	Multimode 18-fiber	0.12 / 3.0	3.4	7,000	~9,000
FB24M5	50/125 OM2	Multimode 24-fiber	0.12 / 3.0	3.4	7,000	~9,000