

Multimode, 50-Micron, Breakout-Style Fiber Optic Bulk Cable



This tight-buffered, 50-micron cable is ideal for high-bandwidth voice, data, video, and imaging signals.

FEATURES

- Breakout design enables individual routing of fibers for termination and maintenance.
- Individually jacketed fibers are rugged and easy to handle.
- Fibers feature an easily strippable 900- μ m coating.
- Suitable for indoor applications.
- Cable construction consists of: outer jacket, tape binder, breakout fiber assembly (tight-buffered fiber surrounded in aramid yarns and jacketed), strength member, and ripcord.
- Both the PVC and plenum cables are rated for fire safety.

Technically Speaking

50- vs. 62.5-micron cable.

As today's networks expand, the demand for more bandwidth and greater distances increases. Thus, there is a renewed interest in 50-micron fiber optic cable. First used in 1976, 50-micron cable has not experienced the widespread use in North America that 62.5-micron cable has.

Although 50-micron fiber cable features a smaller core, which is the light-carrying portion of the fiber, both 62.5- and 50-micron cable feature the same cladding diameter of 125 microns. You can use both in the same types of networks, although 50-micron cable is recommended for premise applications: backbone, horizontal, and interbuilding

connections, and should be considered especially for any new construction and installations. And both can use either LED or laser light sources.

The big difference between 50-micron and 62.5-micron cable is that 50-micron cable provides longer link lengths and/or higher speeds. 50-micron cable features three times the bandwidth of standard 62.5-micron cable, particularly at 850 nm. The 850-nm wavelength is becoming more important as lasers are being used more frequently as a light source. At 850 nm, 50-micron cable is rated at 500 MHz/km versus 160 MHz/km for 62.5-micron cable.

TECH SPECS

Attenuation (Maximum)— 3.5/1 dB/km @ 850/1300 nm

Bandwidth (Minimum)— 500/500 MHz-km @ 850/1300 nm

Bend Radius—

PVC: 2-Fiber: 5.7" (14.5 cm) installation, 4.3" (10.9 cm) operating;
4-Fiber: 6.5" (16.5 cm) installation, 4.9" (12.4 cm) operating;
6-Fiber: 7.5" (19.1 cm) installation, 5.7" (14.5 cm) operating;
12-Fiber: 11.3" (28.7 cm) installation, 21.6" (54.9 cm) operating;
24-Fiber: 13.6" (34.5 cm) installation, 10.2" (25.9 cm) operating;
36-Fiber: 15.8" (40.1 cm) installation, 11.8" (30 cm) operating;

Plenum: 4-Fiber: 5.4" (13.7 cm) installation, 4.1" (10.4 cm) operating;
6-Fiber: 6.6" (16.8 cm) installation, 5" (12.7 cm) operating;
8-Fiber: 7.8" (19.8 cm) installation, 5.9" (15 cm) operating;
12-Fiber: 10.5" (26.7 cm) installation, 7.8" (19.8 cm) operating;
24-Fiber: 12.4" (31.5 cm) installation, 9.3" (23.6 cm) operating;
36-Fiber: 14.3" (36.3 cm) installation, 10.7" (27.2 cm) operating

Buffer Diameter— 900 μ m

Cable Size— PVC: 2-Fiber: 0.286" (7.26 mm);

4-Fiber: 0.325" (8.26 mm);
6-Fiber: 0.377" (9.58 mm),
12-Fiber: 0.567" (14.40 mm);
24-Fiber: 0.680" (17.27 mm);
36-Fiber: 0.788" (20.02 mm);

Plenum: 4-Fiber: 0.273" (6.93 mm);
6-Fiber: 0.330" (8.38 mm);
8-Fiber: 0.392" (9.96 mm);
12-Fiber: 0.523" (13.28 mm);
24-Fiber: 0.620" (15.75 mm);
36-Fiber: 0.715" (18.16 mm)

Fiber Type— Multimode, 50/125 μ m

Pulling Strength—

2-Fiber: 1200 Newtons/270 lb.;
4-Fiber: 2000 Newtons/450 lb.;
6- and 8-Fiber: 2700 Newtons/600 lb.;
12-Fiber: 3500 Newtons/788 lb.;
24-Fiber: 5520 Newtons/1240 lb.;
36-Fiber: 7390 Newtons/1660 lb.

Standards— PVC: UL[®] 1666, CSA FT4;

Plenum: UL 910, CSA FT6;

All: IEEE 802.3 for 1000BASE-SX/LX, 100BASE-F, 10BASE-F,
ATM 155, ATM 622, ATM 1.2/2.4 Gbps, Fibre Channel FC-PH,
IEEE 802.5, FDDI, ICEA 83-596, EIA/TIA-568-B

Tension (Operating)—

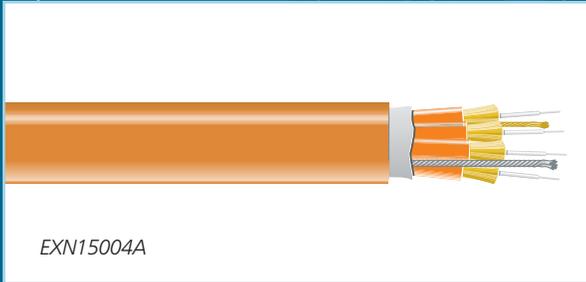
2-Fiber: 500 Newtons/113 lb.;
4-, 6-, and 8-Fiber: 1110 Newtons/250 lb.;
12-Fiber: 1200 Newtons/270 lb.;
24- and 36-Fiber: 2000 Newtons/450 lb.

Vertical Rise— PVC:

2-Fiber: 2739 ft. (834.8 m);
4-Fiber: 5000 ft. (1524 m);
6-Fiber: 3509 ft. (1069.5 m);
12-Fiber: 1674 ft. (510.2 m);
24-Fiber: 2169 ft. (661.1 m);
36-Fiber: 1682 ft. (512.7 m);
Plenum: 4-Fiber: 6667 ft. (2032.1 m);
6-Fiber: 4545 ft. (1385.3 m);
8-Fiber: 3077 ft. (937.9 m);
12-Fiber: 1728 ft. (526.7 m);
24-Fiber: 2483 ft. (759.9 m);
36-Fiber: 1957 ft. (596.5 m)

Temperature—

Operating: -4 to +176°F (-20 to +80°C);
Storage: -40 to +176°F (-40 to +80°C);
Installation: 32 to 122°F (0 to 50°C)



EXN15004A

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Item	Code
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PVC, Riser (OFNR/FT4)	
2-Fiber	
Custom Lengths	EXN15002A
4-Fiber	
500-ft. (152.4-m)	EXN15004A-0500
Custom Lengths	EXN15004A
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Custom Lengths	EXN15006A
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500-ft. (152.4-m)	EXN15012A-0500
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500-ft. (152.4-m)	EXN15036A-0500
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Plenum (OFNP/FT6)	
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Custom Lengths	EXP15004A
6-Fiber	
500-ft. (152.4-m)	EXP15006A-0500
Custom Lengths	EXP15006A
8-Fiber	
Custom Lengths	EXP15008A
12-Fiber	
500-ft. (152.4-m)	EXP15012A-0500
Custom Lengths	EXP15012A
24-Fiber	
500-ft. (152.4-m)	EXP15024A-0500
Custom Lengths	EXP15024A
36-Fiber	
Custom Lengths	EXP15036A

*NOTE: Minimum order for custom lengths is 1640 feet (500 m).
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