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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-µm 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.

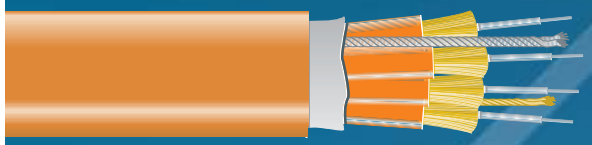
As today's networks expand, the demand for more bandwidth and greater distances increases. Thus, there is a renewed interest in 50-micron fiber optic cable. First used in 1976, 50-micron cable has not experienced the widespread use in North America that 62.5-micron cable has.

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 µm
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 µm
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-0500

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- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

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Item	Code
Multimode, 50-Micron, Breakout-Style Fiber Optic Bulk Cable	
PVC, Riser (OFNR/FT4)	
2-Fiber	
Custom Lengths	**EXN15002A**
4-Fiber	
500-ft. (152.4-m)	**EXN15004A-0500**
Custom Lengths	**EXN15004A**
6-Fiber	
Custom Lengths	**EXN15006A**
12-Fiber	
500-ft. (152.4-m)	**EXN15012A-0500**
Custom Lengths	**EXN15012A**
24-Fiber	
Custom Lengths	**EXN15024A**
36-Fiber	
500-ft. (152.4-m)	**EXN15036A-0500**
Custom Lengths	**EXN15036A**
Plenum (OFNP/FT6)	
4-Fiber	
Custom Lengths	**EXP15004A**
6-Fiber	
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). For details, call our FREE Tech Support.