BLACK BOX®
NETWORK SERVICES

Single-Mode Bulk Fiber Optic Cable

The fibre solution for inside and outside your building.

Key Features

- *9/125-µm single-mode cables.*
- *8.5-µm fibre core.*
- *OFNR NEC® rating*
- *100% tested.*

Technically Speaking

With these Single-Mode Bulk Fibre Optic Cables, you have the ideal solution for routing cables inside a building through riser shafts and wiring closets or in outdoor conduits located below the frostline.

You also get the other benefits of fibre optic cables: They're lighter and more durable than copper—which means easier handling and reduced replacement costs. And they're secure—you can't tamper with them or install data taps in them.

Choose 6- or 12-Fibre Cables depending on your application needs. The advantage of multifibre cables is they can fan out, sending fibres to different locations.

Single-mode cables have a core only a few times bigger than the wavelength of the light being transmitted. Only one ray or mode will be propagated without destructive interference between the rays. This enables you to go greater distances with fewer repeaters.

These Single-Mode Bulk Fibre Optic Cables use 900 µm buffered fibres that are surrounded by dielectric strength members. And they have a flame-retardant outer jacket.

The Cables are available in PVC and Plenum. The Plenum Cables have aramid yarn strength members beneath the flame-retardant outer jacket.

And these Cables meet the application requirements of the 1993 National Electrical Code® NEC article 770 and are UL® listed.

Specifications

Application — Single-Mode Fibre

Bend Radius — EFN006A: 7.2 cm loaded, 4.8 cm unloaded; EFN012A: 10.5 cm loaded, 7 cm unloaded; EFP006A: 7.7 cm loaded, 5.1 cm unloaded; EFP012A: 9.6 cm loaded, 6.4 cm unloaded

Conductor Material — Glass fibre

Diameter — EFN006A, EFP006A, EFP012A: 4.8 mm; EFN012A: 7 mm

Jacket Material — PVC type OFNR

Supported Distance — Depends on the light source

Tensile Strength — EFN006A: 225 lb. (1000 N) loaded, 681 lb. (300 N) unloaded; EFN012A: 405 lb. (1800 N) loaded, 135 lb. (600 N) unloaded; EFP006A: 148 lb. (660 N) loaded, 371 lb. (165 N) unloaded; EFP012A: 297 lb. (1320 N) loaded, 74 lb. (330 N) unloaded

Wire Gauge — Core: 9 µm; Cladding: 125 µm; Buffer: 125 µm

For these and other components...

Call our expert Technical Support Staff for all your Cable and Connector needs. They'll help you find the best equipment for your application.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Single-Mode Bulk Fibre Optic Cable	
PVC	
6-Fibre	EFN006A-0500
12-Fibre	EFN012A-0500