27.04a
Fiber Optics

MultiMode: All multimode fiber optic cables shall have the following characteristics:

- 62.5/125 µm (core/cladding) dual window (850 nm and 1300 nm).
- Maximum attenuation: 3.5 dB/km @ 850 nm and 1.5 dB/km @ 1300 nm.
- OFL bandwidth: 1500 MHz/km @ 850 and 500 MHz/km @ 1300 nm.
- Laser bandwidth: 2000 MHz./km @ 850 nm.

Manufacturers: AMP Netconnect, CommScope, Corning

Single Mode: All singlemode fiber optic cables shall have the following characteristics:

- 9 µm core and /125 µm cladding.
- Dual window, 1300 nm and 1550 nm.
- Maximum attenuation: 0.7 dB/km @ 1300 nm and 0.7 dB/km @ 1550 nm.

Manufacturers: Superior Essex, CommScope, Corning

27.04b
Fiber Optic Terminal Panels

Materials

- The fiber optic terminal panels shall be configured as 72 port units or more, unless otherwise noted.
- The fiber optic terminal panels shall provide cross-connect, inter-connect, and splicing capabilities and contain the proper troughs for supporting and routing the fiber cables/jumpers.
- The fiber optic terminal panels shall consist of a modular enclosure with retainer rings in the slack storage section to limit the bending radius of fibers.
- The fiber optic terminal panels shall have a “window” section to insert adapter plates for the mounting of connectorized fibers.
- The Contractor shall install LC style adapter plates that meet or exceed the following specifications:
  - Operating Temperature -40º to 140ºF (-40º to 60ºC).
  - Average Loss 0.3 dB.
  - Reflections <-25 dB typical.
  - Connector Durability <0.2 dB change after 500 matings.
- A common fiber optic terminal panel shall be used to terminate both singlemode and multimode optical fibers.

Manufacturers: Leviton, Ortronics, Corning