# Optical Fiber Telecommunications VIA: Chapter 7. Fibers for Short-Distance Applications (Optics and Photonics)

*John Abbott, Scott Bickham, Paulo Dainese, Ming-Jun Li*

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This chapter first reviews the current use of multimode fibers with short-wavelength VCSELS for short-distance applications. Standards are in place for 100Gb/s applications based on 10Gb/s optics and are being developed for ~25Gb/s optics. Light propagation in multimode fibers is briefly discussed to explain the DMD measurement and the metrics developed to qualify OM3 and OM4 fiber, including calculated effective modal bandwidth (EMBc). Bend-insensitive multimode fiber is presented, explaining how the new fiber achieves high bandwidth with low bend loss. New fibers for short-distance consumer applications and home networking are discussed. Finally, fibers designed for high-performance computing (HPC) are reviewed, including multicore fibers for optical interconnects.

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