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## **Fiber-optic communication - Wikipedia**

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of laser based optical transceivers in fiber optics communications systems. f. Describe the various methods of fiber alignment, and establish the need for fiber upgrading and describe the role of dispersion

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without overlapping and therefore the speed at which a fiber-optic communication system can operate. Modal dispersion can be reduced by grading the refractive index of the fiber core from a maximum value at its center to a minimum value at the core-cladding boundary.

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An optical fiber cable, also known as a fiber optic cable, is an assembly similar to an electrical cable, but containing one or more optical fibers that are used to carry light. The optical fiber elements are typically individually coated with plastic layers and contained in a protective tube suitable for the environment where the cable will be deployed.

### **Optical fiber cable - Wikipedia**

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considered a milestone, when the capacity of optical communication links via a single optical fiber will reach the physical limitation called the "fiber wall". It is expected that advances in systems with a standard,

single-mode, optical fiber, which enables increasingly

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