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Fiber optic cables are much thinner and lighter than metal wires. Data can be transmitted digitally (the natural form for computer data) rather than analogically. fibers are also immune to electromagnetic interference, a problem from which metal wires suffer excessively.

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Single mode fibre. If for the mode with p=1 θ. 1is greater than the critical angle for the total internal reflection θ. cthen it cannot propagate, only the p=0 mode will. This is the case for a single mode fibre. To generalise a fibre will carry modes 0,1,2...p-1 (that is, p modes) if. 2 2. 2 d <p. λ n f –.

Lecture 3: Fibre Optics - University of Sheffield
πd πd V= µ1 − µ 2 = 2 2 NA λ λ Where , d = fiber core diameter ; λ = wavelength of light NA=numerical apertureFor a single mode fiber, V □ 2.4 and for multimode fiber, V □2.4.Mathematically, the number of modes for a fiber is given by: For Step-index For Graded-index

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