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Teaching guide: Engineering physics

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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 −.

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