# LED Flashlight, Solderless, under \$10

Part from Jack's 99 Cent Store, 32<sup>nd</sup> St. between 6<sup>th</sup> & 7<sup>th</sup> Ave, NYC:

1. 2 AAA Batteries: 99 cents

## Parts from Home Depot:

- 1. 1 foot of Cat 5 cable (split for 20 gauge wire), Part #: 709489: 27 cents
- 2. Wood shims, Part #: 091-996-002-0000: \$1.09
- 4. Electrical Tape, Part #: 0-775-78-03-777-6, 59 cents:
- 5. Light switch, Part #: 078-477-772-713: 64 cents

#### Parts from Radio Shack:

- 1. 2 5 mm high brightness white LED, Part #: 276-017: \$1.99
- 2. AAA Battery Holder, Part #: 270-398: 99 cents

### Tools:

- 1. #2 Phillips head screwdriver
- 2. Wire cutter/stripper
- 3. Scissors

## Design Goals:

- 1. Solderless
- 2. Least expensive components
- 3. High brightness
- 4. Durable
- 5. Easy to assemble
- 6. Flat; cannot roll
- 7. Can be inserted into narrow spaces

## **Total cost: \$6.56**

