Building a 3.5mm to Bare Wire Connector

Scope:

Build an adapter to connect a 3.5mm jack to bare wire connectors. These connections are ideal to analyze waveforms with a Digilent Analog Discovery 2.

Parts List:

- 3.5 mm Male to Screw Terminal Connector ..........Quantity 2
- Male to Male Jumper Wires.................................Quantity 4
- Wire Strippers..................................................Quantity 1
- Phillips Head Screwdriver.................................Quantity 1

Note: Parts can be obtained from other locations these are just examples.

Directions:

1. Cut ends of jumper wires off leaving about 1” of wire left.
2. Strip end of wire to connect inside 3.5mm output terminal.
3. Insert wire into 3.5mm output terminal and tighten screw to secure wire.
4. Repeat steps 1-3 until each output terminal has one connected wire.
5. Connect a second wire to the ground terminal of one of the 3.5mm adapters for the negative side of the 2 channel oscilloscope.

6. Test adapters to verify wire contacts are secure inside 3.5mm adapters.

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