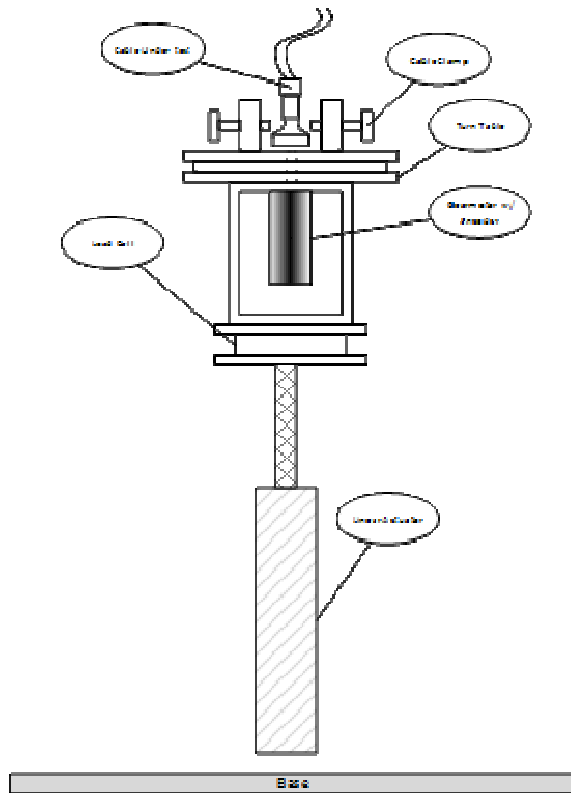


# CABLE PULL AND TWIST TEST STATION

TEAM 6



Reference: GE Cable Testing Specification Document

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# CABLE PULL AND TWIST TEST STATION

## DESCRIPTION

Purpose of Product – System that places load and strain on a cable in order to verify its integrity.

Twists cable 720°

Places cable under 15kg load

Tests continuity of cable being tested

Test duration is 5 min and repeated 5 times

Market – global GE manufacturing plants

\* All underlined fields are customizable with UI for different cables and tests

# KEY REQUIREMENTS

## Cost

- Sales Price: \$550, Component Cost: \$340, Assembly & Test Costs: \$160

## Environment

- Stationary indoors, designed for lab environment
- Operating Temp Range: (0° to 50°C)
- Operating Humidity Range: (0% to 100%) Non Condensing

## Power Input(s)

- Residential AC Power: 102 – 132 VAC @ 1.5 Amps Max

## Major Functions, Quantities Measured, Displayed

- *Functions:* On, Off, Standby, & Measure
- *Measurements:* Load, Temperature, Humidity, Continuity
- *Load:* Range: 0 to 30kg, Accuracy: +/-0.1kg, Resolution: 0.1kg
- *Temperature Range:* 0-40°C, Accuracy: +/- 2°C, Resolution: 1°C

# BLOCK DIAGRAM

