

**Installation Designer**

File Project Information

Project Name: Solutions Training Max. Volts Drop.: Total V. Drop: 5.0 %

Additional Info.: 234.1906 192.9134 Pg. 1 Zoom factor: 5 %

**Parts List**

| Element                               | Type                         | Detail                  | Size      | Length/Qua | Price per Item | Sub- |
|---------------------------------------|------------------------------|-------------------------|-----------|------------|----------------|------|
| Installation No. 1                    |                              |                         |           |            |                |      |
| Level No. 1                           |                              |                         |           |            |                |      |
| Connected to: SOLUTIONS TRAINING      |                              |                         |           |            |                |      |
| Load Identification: TRANSFORMER      |                              |                         |           |            |                |      |
| Cable                                 | PVC 75°C (Cu) Multicore 4C+E |                         | 4C+E      | 50 mts     | 0              |      |
| Load                                  | TRANSFORMER                  |                         |           | 500        | 1              | 0    |
| Level No. 2                           |                              |                         |           |            |                |      |
| Connected to: MAIN SWITCHBOARD        |                              |                         |           |            |                |      |
| Load Identification: MAIN SWITCHBOARD |                              |                         |           |            |                |      |
| Cable                                 | PVC 75°C (Cu) Singles        | Active                  | 150.0 mm2 | 150 mts    | 0              |      |
| Cable                                 | PVC 75°C (Cu) Singles        | Earth                   | 50.0 mm2  | 50 mts     | 0              |      |
| Cable                                 | PVC 75°C (Cu) Singles        | Neutral                 | 150.0 mm2 | 50 mts     | 0              |      |
| Protection                            | CTI 600 Amps                 | Cable Protection Minimu |           | 18 KA      | 1              | 0    |
| Protection                            |                              | Load Protection Minimu  |           | 18 KA      | 1              | 0    |

Material Cost: [ ]  
 Add %: [ ]  
 Total Material Cost: [ ]

Total Installation Time: 0:00  
 Hourly rate: [ ]  
 Add %: [ ]  
 Total Labour Cost: [ ]

Buttons: Detail List, Totals, Miscellaneous, Print, Generate Invoice, Save, Close

A full parts list can be automatically produce from the software (costs can be entered if desired) Individual printouts can be produced for supplier quotes etc.

A full automatic earth loop test can be completed on all final sub circuits within the design. All non compliant circuits will be highlighted in red in the text area as well as the sinle line drawing area.

**Earth Loop Impedance Test**

**Test Installation**

Next Load  
 Previous Load  
 Next Circuit  
 Previous Circuit

**Cable I.D. : LIGHTS 1**

Cable from: DIST BOARD 1  
 Cable to: OFFICE LIGHTS

Active Size: 2.5 mm2

Fault current conductor

Size Cores  
 Earth 2.5 mm2 1  
 Neutral 2.5 mm2 1

Protection Device  
 HRC Fuse  
 Circuit Breaker  
 Switch  
 CTI

RCD Fuse MCCB

Type: Type 'C' CB  
 Size: 10

Trip Time  
 0.4 seconds  
 5 seconds

Buttons: Enter Changes, Print, Close

**Max. E.L.I. : 3.3280 Ohms**

| Cable I.D.   | Connected from   | Load I.D.     | Active Size | Load (Amps) | Cores | Fault Current Conductor | Size     | Cores | F |
|--------------|------------------|---------------|-------------|-------------|-------|-------------------------|----------|-------|---|
| Leg No. 1    |                  |               |             |             |       |                         |          |       |   |
| LIGHTS 1     | DIST BOARD 1     | OFFICE LIGHTS | 2.5 mm2     | 10          |       | Earth                   | 2.5 mm2  | 1     |   |
| DIST BOARD 1 | MAIN SWITCHBOARD | DIST BOARD 1  | 70.0 mm2    | 200         |       | Earth                   | 25.0 mm2 | 1     |   |

Transformer Regulations

Maximum Demand

Control Wiring Schematics

Electrical

IDE