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# Eaton Signal Cable Test Report

| | |
|---|---|
| Author | Rene Van Der Kooij |
| Revision Number | 3.0 |
| Revision Issue Date | 06/05/2025 |

## Health and Safety

This test script shall list all safety requirements and PPE required whilst performing the below tasks. Install batteries as described in the Lithium Ion Installation Manual.

- Safety hard hat
- Safety glasses
- Safety Ark flash high visibility clothing (jacket and trousers)
- Safety Ark Flash gloves
- Safety ankle support boots (no riggers)

Furthermore, **whenever working on batteries ensure that**:

- Only use insulated tools.
- Remove all metal Jewellery and watches etc.
- Eye wash facilities to be stored in a known and locally accessible location.

General Notes

- A calibrated Insulation Resistance Meter and Digital Multimeter must be used, and the certificates of calibration attached to these results.
- **All Control cables must be disconnected and not touching any other cable or equipment at either end.**

## Equipment Details

| | |
|---|---|
| Microsoft Equip ID (from) | LON01-COLO3-CE4-UPS01 |
| Eaton UPS Model No. | 9395P 1200kW 1263kVA |
| Microsoft Equip ID (To) | LON01-COLO3-CE4-UPS01-BMS01 |

## Eaton Signal Cable Point to Point tests

These tests are required to ensure that the multicore cable has been installed and identified correctly, and no circuits have been crossed or polarity swapped. The starting point for the test is with all cables fully connected. During the test, disconnect only the earth cable within the multicore, temporarily connect it to the cabinet earth, use a digital multimeter to measure the resistance to earth on the multicore cable. Ensure the cable core has a resistance below 1Ω; all other cables within the multicore should remain connected and are not tested to earth. Once the correct cable has been confirmed, ensure it is correctly labelled and color-coded. Change the jumper test lead to the next cable and repeat until all cables have been tested.

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| | |
|---|---|
| Digital Multimeter Make/Model | |
| Digital Multimeter Serial Number | |
| Digital Multimeter Date of last calibration | |

| Cable | Point to point test confirms correct cable at each end | | | Cable fitted with correct cable ID at each end | | |
|---|---|---|---|---|---|---|
| | Yes | No | NA | Yes | No | NA |
| Signal Cable 1: UPS to SKID 1 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 2: SKID 1 to SKID 2 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 3: SKID 2 to SKID 3 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 4: SKID 3 to SKID 4 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 5: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 6: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 7: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 8: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 9: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 10: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 11: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Signal Cable 12: N/A | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

| Final QA and Sign Off | | | |
|---|---|---|---|
| The calibration certificate for the digital Multimeter has been uploaded to Compass. | | | Yes ☐ No ☐ |
| Engineer Name | | Signature | |
| Date | | | |

**Complete Form**