



CONNECT AND PROTECT

Engineering Electrical Lab

- Bonding
- Grounding
- Lightning Protection
- Surge Protection

In order to more effectively meet market requirements, nVent ERICO has invested in state-of-the-art equipment and expanded the in-house Engineering Electrical Lab. By increasing capability, nVent ERICO can support major Development and Commercial opportunities.

BY MAINTAINING ITS OWN LAB, ERICO IS ABLE TO:

- Support the testing of new applications using nVent ERICO-brand products
- Participate in UL® Client Test Data Program
- Support competitive product testing
- Enhance internal development of innovative products
- Support key commercial opportunities
- Reduce time to market
- Test and evaluate to IEC standards


nvent

ERICO

ENGINEERING STANDARDS & COMPLIANCE

The electrical lab has significantly expanded its scope of test authorizations to include tests from UL 1059 (terminal blocks), UL 486A-B-E (wire connectors) and UL 1449 (surge protective devices). This is in addition to the existing test authorizations for UL 2239 (conduit/cable hardware), UL 514A (outlet box supports), UL 203 (pipe hangers), UL 203A (sway braces), UL 467 (grounding/bonding devices) and UL 96 (lightning protection components).

To address the additional requirements, specific test equipment and software was designed, fabricated or purchased: UL 486A-B-E (secureness machine and impact energy fixture); UL 1059/UL 486A-B-E (automated thermal feedback program and current cycling rack); UL 1059/UL 1449 (oven for accelerated aging and mold stress relief).

EQUIPMENT



**150 kA 8/20 μ s
Surge Generator**

ASSOCIATED STANDARDS

- IEC 62305, 61643
- IEC 62561 (EN 50164)
- IEEE® C62.41



**6 kA Continuous
15 kA Short Duration
AC Current Tester**

ASSOCIATED STANDARDS

- UL 467
- UL 486 A-B-E
- UL 1059
- UL 2703
- IEC 60947-7-1
- UL 67



**40 kA 8/20 μ s
Surge Generator**

ASSOCIATED STANDARDS

- IEC 62305, 61643
- IEC 62561 (EN 50164)
- IEEE C62.41
- UL® 1449



**5 kV_{AC} / 6 kV_{DC} Dielectric
Withstand Tester**

ASSOCIATED STANDARDS

- UL 486 A-B
- UL 1953
- UL 1059



**100 kA 10/350 μ s
Surge Generator***

ASSOCIATED STANDARDS

- IEC 62305, 61643
- IEC 62561 (EN 50164)
- IEEE C62.41

* Also capable of 10/1000 μ s waveshape

**And many other
fully adaptable bench top
testing capabilities.**



**For more information or to inquire about a specific research project,
please contact your local ERICO representative.**



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ERICO-FLY-A1248F-A230LT16NA-EN-1805

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