

# NEON INSTALLATION GUIDE

INSTALLATION INSTRUCTIONS & TECHNICAL DATA SHEET

## CHANNEL LETTER

RACEWAY MOUNTED (Option 1) No Face, Exposed Neon

REFER TO PAGES 50 & 51 IN THE NEON INSTALLATION GUIDE

LETTER



Channel

WIRING



Raceway

FACE TYPE



Exposed/Open

LOCATION



Dry/Damp

Listed Sign or Sign Section NEC 600-3.

-All electric signs shall be listed & installed in conformance with that listing.

-Channel letters mounted to a raceway, with insulating boots and sleeves, transformer and a disconnect switch.

-Acceptable for damp or dry locations.

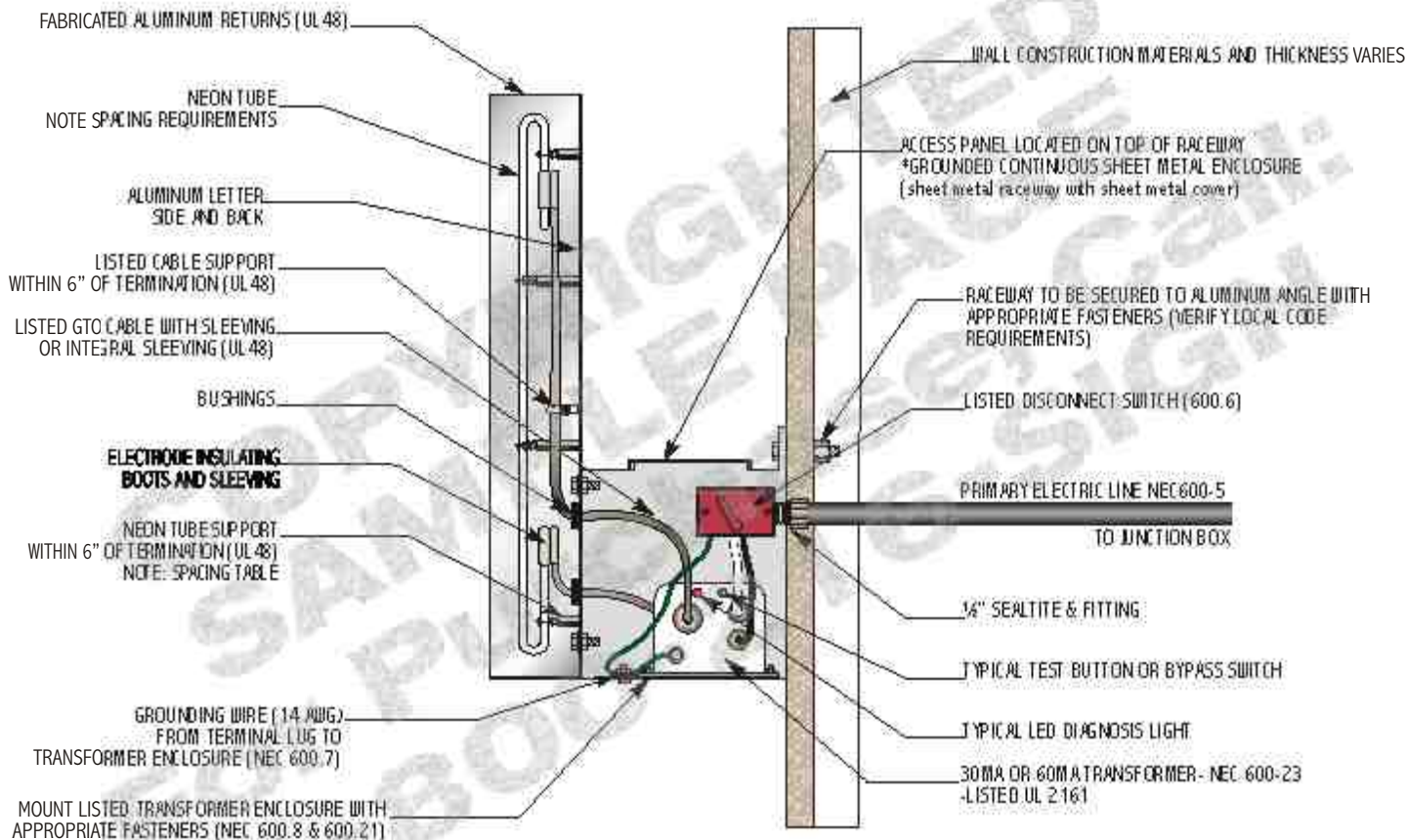


**ELECTRIC  
SIGN**  
LISTED  
No. 00000000

• TYPICAL UL LABEL SHOWN  
SIGN MUST BE LISTED BY QUALIFIED  
ELECTRICAL TESTING LABORATORY



EXAMPLE OF FINISHED INSTALLATION USING BOOTS AND SLEEVEING



NOTE: Always read & understand component manufacturers installation instructions.

SPACING TABLE AS CURRENTLY REQUIRED BY UL48 STANDARD FOR SIGNS

VOLTAGE	100 to 5,000	5,000 to 10,000	10,000 to 15,000
Minimum space between insulated high voltage wiring and 1) primary wiring and 2) dead metal where dead metal parallels the high voltage wiring for more than 1" length.	1/2 inch	3/4 inch	1 inch
Minimum space between neon glass tubing and nearest surface	1/4 inch	1/4 inch	1/4 inch
Minimum space between uninsulated high voltage parts and 1) dead metal and 2) insulated high voltage or supply conductor.	3/4 inch	1-1/8 inch	1-1/2 inch
Minimum space between uninsulated high voltage parts and 1) other uninsulated high voltage parts and 2) uninsulated supply and low voltage parts.	1 inch	1-1/2 inch	2 inch

Sign Company  
0000 Main Street  
Anywhere, USA

DATE: \_\_\_\_\_

VOLTAGE: \_\_\_\_\_

AMPERES: \_\_\_\_\_

NEC-600-4  
MARKINGS REQUIRED

NOTICE: High voltage, secondary wiring installations, should only be attempted by experienced Electrical professionals. This INSTALLATION INSTRUCTION GUIDE & TECHNICAL DATA SHEET is not a how to manual covering all aspects of high-voltage neon installations. This is a visual reference Guide for installations to help avoid common mistakes in secondary wiring. It may also be used as a Complement to your other materials as installation instructions in the field. These sheets should not be relied upon as the sole source of information for high voltage installations. At the time of printing, we believe the information found within is correct, however codes and legislation change and that may outdate sections of these visual pages. The publishers or sponsors of this visual technical data cannot be held liable for any damages or injury resulting from interpretations, or use of this material as a basis for electrical installations. Installers of any high-voltage wiring should know that they must always conform to the relevant or applicable electrical practices, sign codes, electric codes or other authorities having jurisdiction. All rights reserved. No part of this publication may be reproduced or transplanted by any means electronic or mechanical to include photocopying, without the prior written permission of the publisher. If you have purchased this document in hard cover then you have the right to make individual copies for use as a guide in neon installations for individual projects.

Check with National Electric Code 2005 or current code adopted by AHJ and Underwriters Laboratories current requirements for installation.