



### Skeleton Tubing

Neon tubing that is itself the sign or outline lighting and not attached to an enclosure or "sign body"



**No Enclosure**



**On Enclosure  
(Sign Cabinet)**

The installations in this section are comprised of skeleton neon either with no enclosure (directly on a building or structure) or on an enclosure (transformer located within sign cabinet).

# SKELETON TUBING

**Remote Wired**

# SKELETON TUBING

Remote Wired

## General Requirements



Building entrances must be sealed



Transformers & High Volt Boxes – Damp or Dry



Double G-Cup with CPA assembly



Transformers & High Volt Boxes – Behind Wall Exposed



Glass housings

Glass and porcelain housings



Boot and Sleeve listed for wet locations (Master-Watertite shown)



G-Cup with CPA assembly



Disconnect Switch



# SKELETON TUBING

ON ENCLOSURE (Option 1)

Exposed Neon

LETTER



Skeleton

WIRING



Enclosure

FACE TYPE

Not Applicable

LOCATION



Wet

## Special Installation Instructions

- Sign Location Is Wet
- Connections Inside Enclosure Need Only Be Enclosure Rated, This Allows:
  - Twisted Connections With Appropriate Spacing
  - GTO Without Integral Or External Sleeving



## Wet Connections

**Wet Location** — Installations subject to saturation with water or other liquids (such as vehicle washing areas), and unprotected locations exposed to weather.



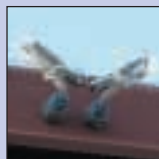
Glass and porcelain housing



Boot and sleeve (Masters-Watertite system shown)



Housing cap optional



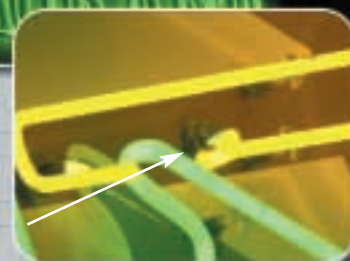
G cup with CPA (Absko shown)



Example of Finished Installation



Exposed neon tubing attached to an enclosure



Glass housing cap not required if in cabinet enclosure

Housing Cap

Boot and sleeve (Masters-Watertite system shown)



Glass cup with CPA assembly



Inside cabinet with glass housings

Neon through enclosure — 1/4" clearance required



Closeup of twisted connection

# SKELETON TUBING

NO ENCLOSURE (*Option 1*)

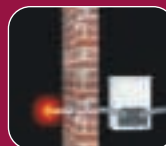
Exposed Neon

LETTER



Skeleton

WIRING



No Enclosure

FACE TYPE




Not Applicable

LOCATION



Wet

## Special Installation Instructions

- Sign Location Is Wet 
- Connections Must Be Listed As A "System" For Wet Locations 
- Protected Connections On The Opposite Side Of The Wall Are Damp/Dry Rated 

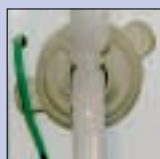


## Wet Connections

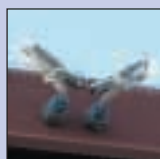
**Wet Location** — Installations subject to saturation with water or other liquids (such as vehicle washing areas), and unprotected locations exposed to weather.



Boot & Sleeve  
(Masters-Watertite  
system shown)



Housing cap  
with PK

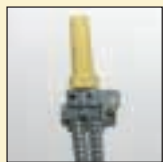


G cup  
with CPA  
(Absko shown)



## Damp/Dry Connections

**Damp Location** — Partially protected locations under canopies, marquees, roofed open porches, and similar locations; as well as interior locations subject to moderate degrees of moisture, such as basements, barns, and cold storage warehouses.



Electrobits high  
voltage connector



High volt box  
(Westrim shown)



High volt box  
(Transco shown)



Listed rain  
tight box  
(Masters shown)



Take up box



Self contained  
transformer  
enclosure



Transformer box  
(Transco shown)



Metal conduit  
and through wall

## Notes

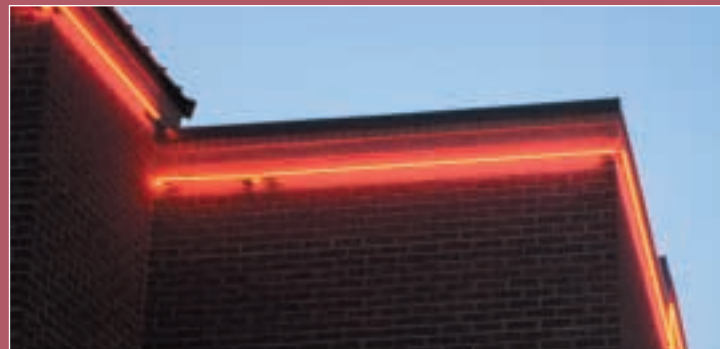
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Example of Finished Installation



Housing cap



Boot & Sleeve  
(Masters-Watertite  
system shown)



Glass cup with  
CPA assembly



# SKELETON TUBING

NO ENCLOSURE (Option 1)

Exposed Neon

LETTER



Skeleton

WIRING



No Enclosure

FACE TYPE

LOCATION



Damp/Dry

## Special Installation Instructions

- Sign Location Is Damp/Dry ☁
- Connections Must Be Listed For Damp/Dry Locations ☁
- Protected Connections On The Opposite Side Of The Wall Are Damp/Dry Rated ☁
- Connections Shown Here Cannot Be Used For Wet Locations ⚡



## Damp/Dry Connections

**Damp Location** – Partially protected locations under canopies, marquees, roofed open porches, and similar locations; as well as interior locations subject to moderate degrees of moisture, such as basements, barns, and cold storage warehouses.



Electrobits high voltage connector



High volt box (Westrim shown)



High volt box (Transco shown)



Listed rain tight box (Masters shown)



Take up box



Self contained transformer enclosure



Transformer box (Transco shown)



Metal conduit and through wall



Example of Finished Installation



Boots and GTO with sleeving (Westrim shown)



Boot & Sleeve (Masters-Watertite system shown)



Glass cup, CPA not required, no orientation required (Absko shown)



Bonding plate with green wire metal ring and lug