

### **Reverse – Rear illumination**

A letter shape or artform fabricated from plastic, metal, or other material recognized as suitable as an enclosure; depending on the face, to be used exposed, as a sign body or as an enclosure.



The installations in this section are remote wired (transformer located behind installation surface).

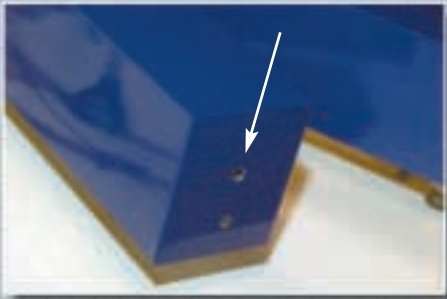
# REVERSE CHANNEL LETTER

Remote Wired

## General Requirements



Building mounted bonding plate



Drain holes required



Bonding for a metal letter



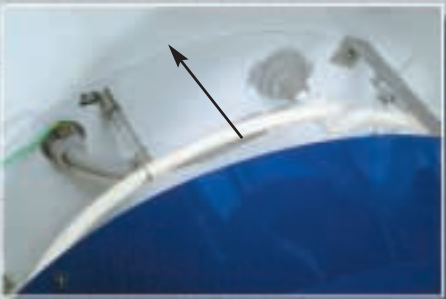
Transformers & High Volt Boxes – Damp or Dry



Building entrances sealed / NEC



Transformers & High Volt Boxes – Behind Wall Exposed



Bonding / grounding plate required



Transformer in enclosure



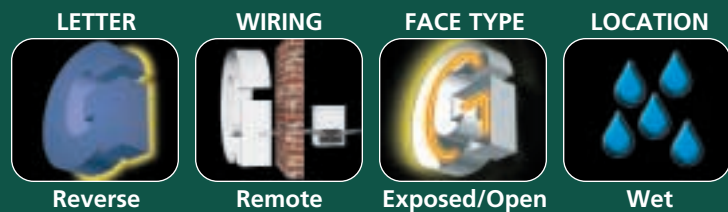
Through wall building seal





Disconnect switch

# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 1)  
With Open Back



## Special Installation Instructions

- Sign Location Is Wet 
- Connections Inside Reverse Channel Letter (Exposed) 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.



Listed rain tight box (Masters shown)



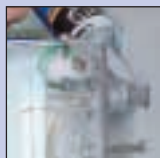
Boot & Sleeve (Masters-Watertite system shown)



Housing cap



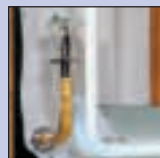
G cup with CPA (Absko shown)



All conduit should be Sealite and caulked



Listed rain tight box (Power Pro shown)



Listed sign accessory (Power Pro 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)



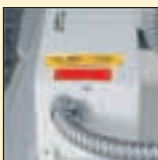
High volt box (Transco shown)



High volt box (Masters shown)



Take up box



Self contained transformer enclosure



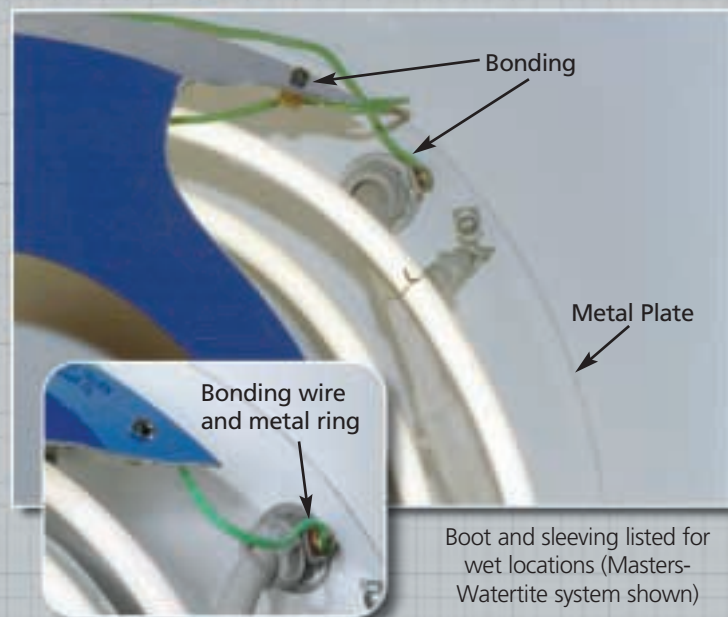
Transformer box (Transco shown)



Metal conduit and through wall



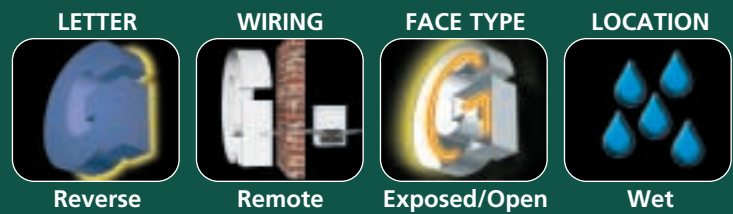
Example of Finished Installation





# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 2)  
With Open Back



## Special Installation Instructions

- Sign Location Is Wet
- Connections Inside Reverse Channel Letter (Exposed) Must Be Listed As A "System" For Wet Locations
- Protected Connections On The Opposite Side Of The Wall Are Damp/Dry Rated

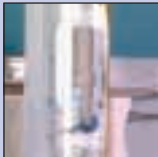


## Wet Connections

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



Listed rain tight box (Masters shown)



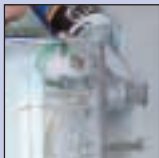
Boot & Sleeve (Masters-Watertite system shown)



Housing cap



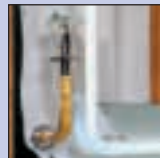
G cup with CPA (Absko shown)



All conduit should be Sealite and caulked



Listed rain tight box (Power Pro shown)



Listed sign accessory (Power Pro 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)



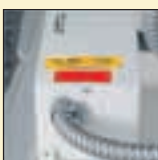
High volt box (Transco shown)



High volt box (Masters shown)



Take up box



Self contained transformer enclosure



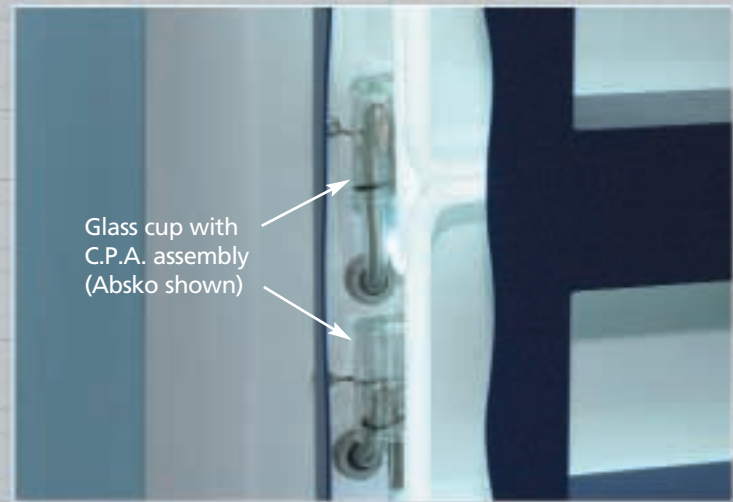
Transformer box (Transco shown)



Metal conduit and through wall

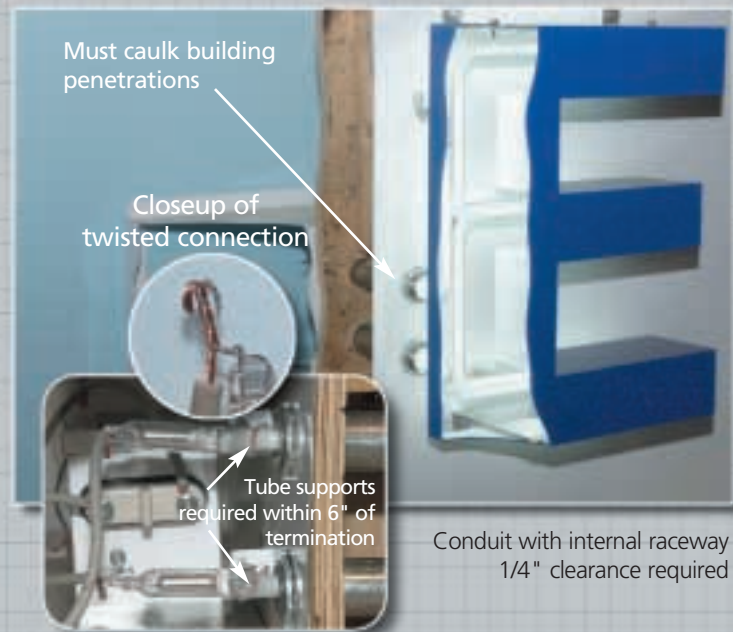


Example of Finished Installation



Glass cup with C.P.A. assembly (Absko shown)

Glass cup and C.P.A. assembly



Must caulk building penetrations

Closeup of twisted connection

Tube supports required within 6" of termination

Conduit with internal raceway 1/4" clearance required

# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 1)  
With Open Back

LETTER



Reverse

WIRING



Remote

FACE TYPE



Exposed/Open

LOCATION



Dry/Damp

## Special Installation Instructions

- Sign Location Is Damp/Dry ☀️
- Connections Inside Reverse Channel Letter (Exposed) Must Be Rated 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)



High volt box (Masters shown)



Take up box



Self contained transformer enclosure



Transformer box (Transco shown)



Metal conduit and through wall

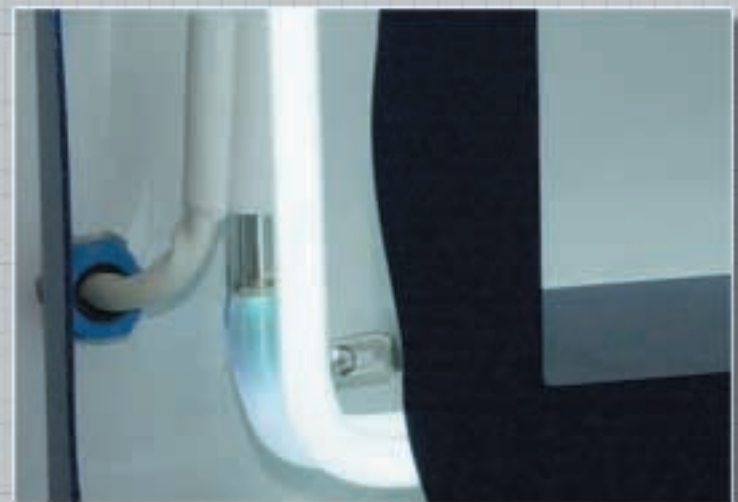
## Notes



Example of Finished Installation



GTO listed as sign accessory and boots and sleeve



Boots and sleeve (Electrobits shown)



# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 1)  
With Recognized Component Back

LETTER



Reverse

WIRING



Remote

FACE TYPE



Recognized

LOCATION



Wet

## Special Installation Instructions

- Sign Location Is Wet
- Channel Letter With Enclosure Rated Back Creates An Enclosure
- Connections Inside Reverse Channel Letter (Enclosure) Can 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.



Listed rain tight box (Masters shown)



Boot & Sleeve (Masters-Watertite system shown)



Housing cap



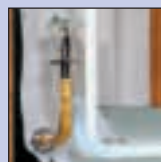
G cup with CPA (Absko shown)



All conduit should be Sealite and caulked



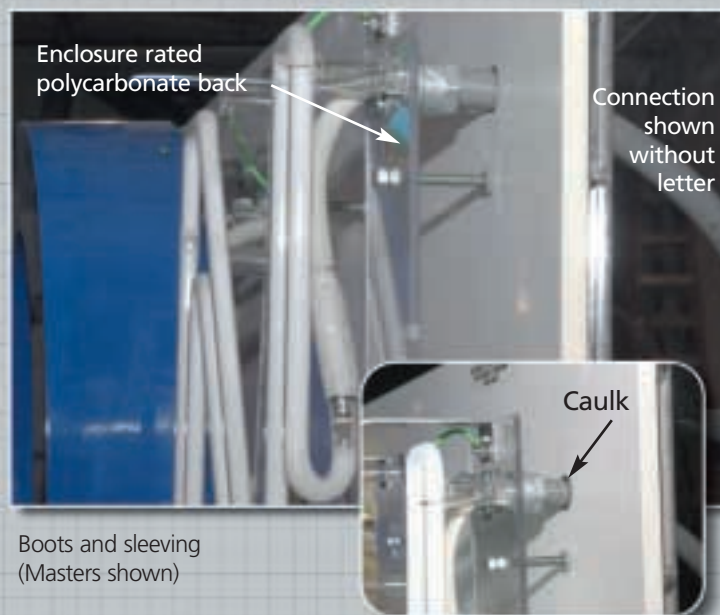
Listed rain tight box (Power Pro shown)



Listed sign accessory (Power Pro shown)



Example of Finished Installation



Boots and sleeving (Masters 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)



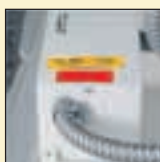
High volt box (Transco shown)



High volt box (Masters shown)



Take up box



Self contained transformer enclosure



Transformer box (Transco shown)



Metal conduit and through wall



Listed GTO (sleeving not required)

# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 2)  
With Recognized Component Back

LETTER



Reverse

WIRING



Remote

FACE TYPE



Recognized

LOCATION



Wet

## Special Installation Instructions

- Sign Location Is Wet
- Channel Letter With Enclosure Rated Back Creates An Enclosure
- Connections Inside Reverse Channel Letter (Enclosure) Can Be Enclosure Rated, This Allows:
  - Twisted Connections With Appropriate Spacing
  - GTO Without Integral Or External Sleeving

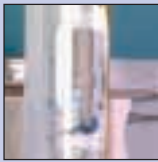


## Wet Connections

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



Listed rain tight box (Masters shown)



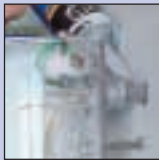
Boot & Sleeve (Masters-Watertite system shown)



Housing cap



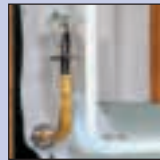
G cup with CPA (Absko shown)



All conduit should be Sealite and caulked



Listed rain tight box (Power Pro shown)



Listed sign accessory (Power Pro shown)



Example of Finished Installation



G-Cup without CPA with integral sleeving



## 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)



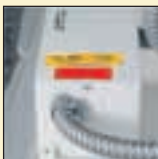
High volt box (Transco shown)



High volt box (Masters shown)



Take up box



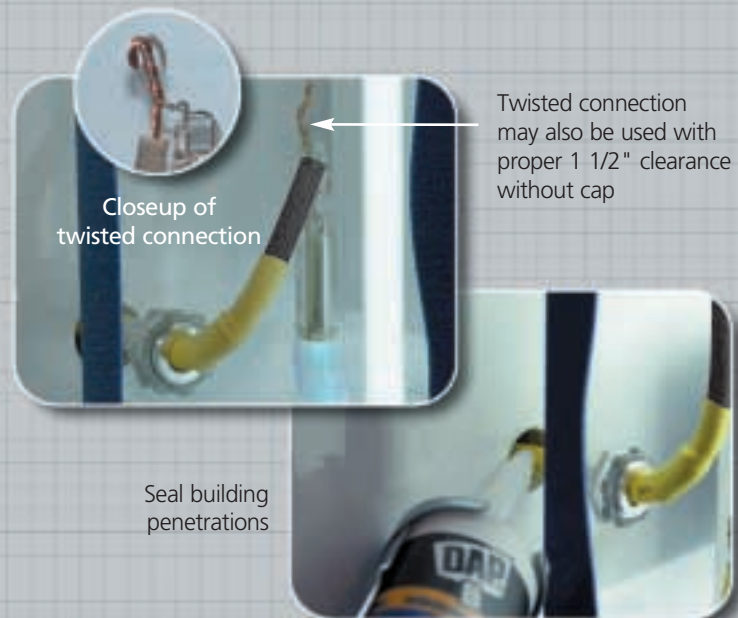
Self contained transformer enclosure



Transformer box (Transco shown)



Metal conduit and through wall



Closeup of twisted connection

Twisted connection may also be used with proper 1 1/2" clearance without cap

Seal building penetrations



# REVERSE CHANNEL LETTER

REMOTE WIRED (Option 3)  
With Recognized Component Back

LETTER



Reverse

WIRING



Remote

FACE TYPE



Recognized

LOCATION



Wet

## Special Installation Instructions

- Sign Location Is Wet
- Channel Letter With Enclosure Rated Back Creates An Enclosure
- Connections Inside Reverse Channel Letter (Enclosure) Can Be Enclosure Rated, This Allows:
  - Twisted Connections With Appropriate Spacing
  - GTO Without Integral Or External Sleeving

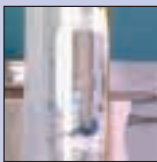


## Wet Connections

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



Listed rain tight box (Masters shown)



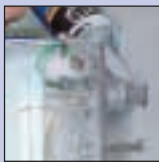
Boot & Sleeve (Masters-Watertite system shown)



Housing cap



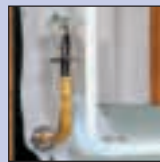
G cup with CPA (Absko shown)



All conduit should be SealTite and caulked



Listed rain tight box (Power Pro shown)



Listed sign accessory (Power Pro shown)



Example of Finished Installation



Must caulk building penetration



## 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)



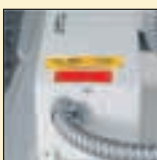
High volt box (Transco shown)



High volt box (Masters shown)



Take up box



Self contained transformer enclosure

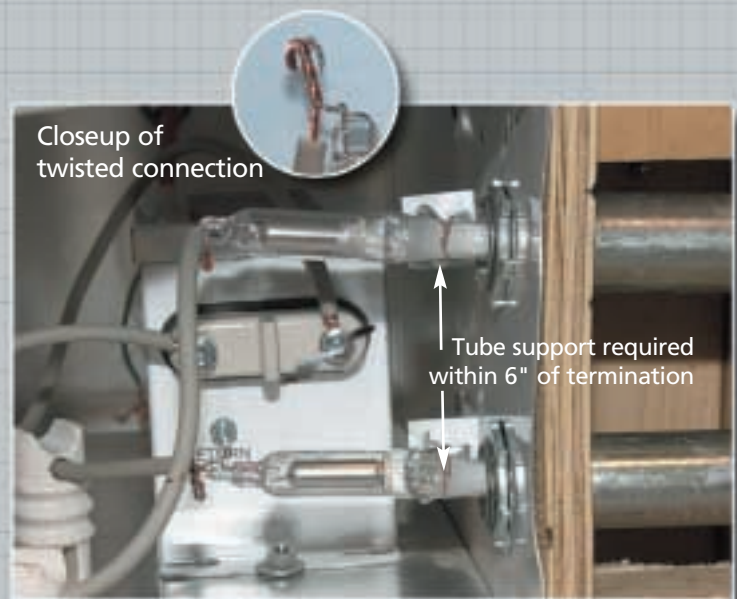


Transformer box (Transco shown)



Metal conduit and through wall

Closeup of twisted connection



Tube support required within 6" of termination

Conduit with internal raceway