

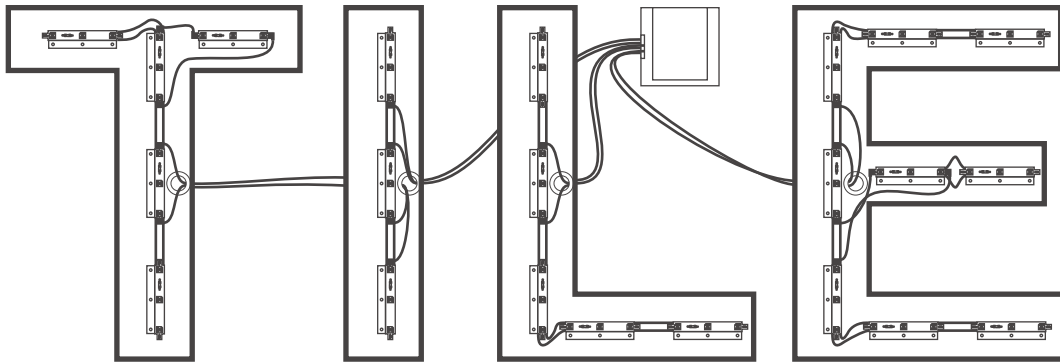
Make your LED lighting choice with your customer's buying motives in mind!™

# USLED The Right Choice™

## PINNACLE LIGHTING SERIES - INSTALLATION INSTRUCTIONS

*"As Easy As It Gets!"*

1. LAY OUT THE PINNACLE SERIES LIKE NEON, ONLY WITHOUT DOUBLE-BACKS, APPROXIMATELY 4"- 5" ON CENTER. (FOR BEST RESULTS, CHECK YOUR FIRST LETTER TO MAKE SURE YOU ARE SATISFIED BEFORE PROCEEDING).
2. INSTALL DESIRED LENGTH OF PRODUCT IN LETTERS BY FASTENING MOUNTING CLIPS WITH VHB TAPE OR MECHANICALLY THROUGH HOLES IN THE CLIP, OR BOTH. VHB TAPE PLUS A LITTLE SILICONE WORKS WELL TOO.
3. CONNECT SEPARATE RUNS OF PRODUCT WITHIN A LETTER USING 6", 12" OR 24" JUMPER WIRES WITH PRE-CRIMPED CONNECTORS AS REQUIRED. THESE WIRES ARE AVAILABLE IN TWO COLORS, BLUE FOR NEGATIVE & RED FOR POSITIVE. SIMPLY CONNECT ONE NEGATIVE TAB AT THE END OF ANY MODULE ON ONE RUN TO A NEGATIVE TAB AT THE END OF ANY MODULE ON THE SECOND RUN. THEN REPEAT PROCESS CONNECTING A POSITIVE TAB ON ONE RUN TO A POSITIVE TAB ON THE OTHER.
4. 36" JUMPER WIRES WITH CLASS 2 WIRE CAN BE USED TO CONNECT MODULES FROM LETTER TO LETTER AS WELL. ALL RUNS THRU A WALL MUST EITHER BE IN A CONDUIT OR "PASS-THRU" OR BE MADE WITH CLASS 2 WIRE.
5. TECHNIQUES TO MAX / MINIMIZE LIGHT UNIFORMITY :
  - A. LIMIT THE TOTAL LENGTH OF ANY RUN TO 1/3 OF A FULL POWER SOURCE LOAD (I.E. 45 MODULES OR 15 FEET FOR WHITE, BLUE OR GREEN).
  - B. "MID-POINT" CONNECTIONS OR RUNS IMPROVE LOAD BALANCE & LIGHT UNIFORMITY.
6. ALTHOUGH JUMPS CAN BE MADE FROM LETTER TO LETTER & THEN FROM THE FINAL LETTER TO THE POWER SOURCE, THE PREFERRED METHOD IS TO RUN EACH LETTER TO THE POWER SOURCE. THE SECONDARY WIRES ON THE POWER SOURCES ARE COLOR COORDINATED BLUE FOR NEGATIVE & RED FOR POSITIVE (SOME PRODUCTS USED BLACK FOR NEGATIVE & YELLOW FOR POSITIVE).



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### TROUBLE SHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
A SINGLE MODULE NOT LIGHTING	MALFUNCTION ON MODULE	LEAVE MALFUNCTIONING MODULE IN PLACE. MOUNT REPLACEMENT MODULE ALONGSIDE & USING JUMPER WIRES, CONNECT THE POSITIVE TAB TO THE POSITIVE TAB OF ANY MODULE ON THE RUN. DO LIKEWISE WITH THE NEGATIVE TAB.
LEDS FLICKER	UNDERLOADED OR OVERLOADED MALFUNCTIONING POWER SOURCE	ADJUST LOADS ON POWER SOURCES. REPLACE POWER SOURCE.
ENTIRE PRODUCT RUN IS NOT LIGHTING	A. BAD WIRE CONNECTIONS.	A. RESTORE CONNECTION.
	B. IF ONLY ONE RUN OF PRODUCT ON POWER SOURCE, MALFUNCTIONING POWER SOURCE.	B. CHECK POWER SOURCE & REPLACE IF APPROPRIATE.
	C. SHORT	C. AN EASY WAY TO CHECK FOR A SHORT IS TO LIGHT THE LED RUN WITH A 9-VOLT BATTERY. THE RUN WILL NOT LIGHT IF IT IS SHORTED. IF THE POWER SOURCE IS OVERLOADED THE RUN WILL STILL LIGHT ONLY DIMMER.
	D. OVERLOAD.	D. CHECK THE LENGTH OF THE LED RUN & REMOVE ANY OVERLOAD. SEE CHART FOR MAXIMUM LOAD.

Designed with  
the sign company  
and the end user  
in mind.™

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# PINNACLE LIGHTING SERIES SECTIONAL VIEWS

## Loading Chart

Model Number	Description	Power	Load 12W	Load 60W Min - Max
RLS-3-12-R*	Red 3-LED Module - 12V 100 degree	1.44 w	7 Feet (2.1m)	7 Feet (2.1m) - 35 Feet (10.6m)
RLS-2-12-R**	Red 2-LED Module - 12V 100 degree	2.05 w	5 Feet (1.5m)	5 Feet (1.5m) - 23 Feet (7.0m)
RLS-3-12-O*	Orange 3-LED Module - 12V	1.44 w	7 Feet (2.1m)	7 Feet (2.1m) - 35 Feet (10.6m)
RLS-2-12-O**	Orange 2-LED Module - 12V	2.05 w	5 Feet (1.5m)	5 Feet (1.5m) - 23 Feet (7.0m)
GL-2-12-G**	Green 2-LED Module - 12V	1.1 w	9 Feet (2.7m)	9 Feet (2.7m) - 45 Feet (13.7m)
BL-2-12-B**	Blue 2-LED Module - 12V	1.1 w	9 Feet (2.7m)	9 Feet (2.7m) - 45 Feet (13.7m)
WL-2-12-W**	White 2-LED Module - 12V	1.1 w	9 Feet (2.7m)	9 Feet (2.7m) - 45 Feet (13.7m)

\* Two modules per foot  
 \*\* Three modules per foot

## Transformer Specs

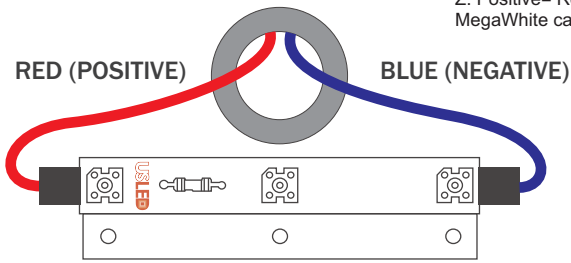
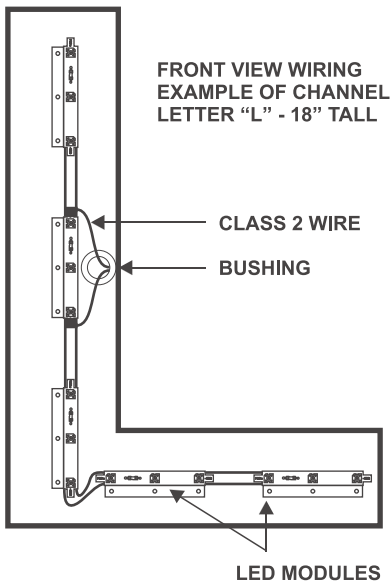
Model Number	Description	A@120V*
PSA-12-12	12VDC (120V ± 10% Input ) 12 Watts	0.11 A
PSA-12-60	12VDC (120V ± 10% Input ) 60 Watts	0.53 A

\* Fully Loaded, True power

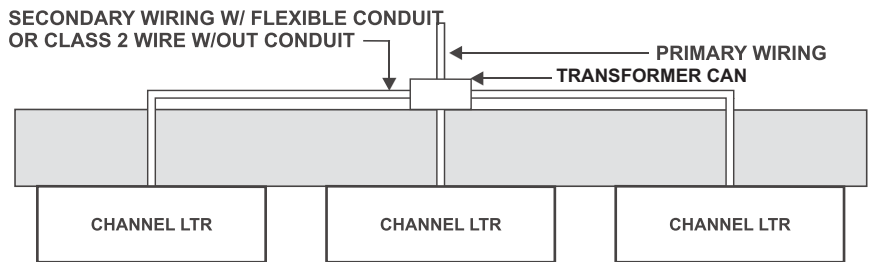
## Wires

Model Number	Description
RLSW-6-z	6" Wire with connectors
RLSW-12-z	12" Wire with connectors
RLSW-24-z	24" Wire with connectors
RLSW-36-z	36" class 2 Wire with connectors

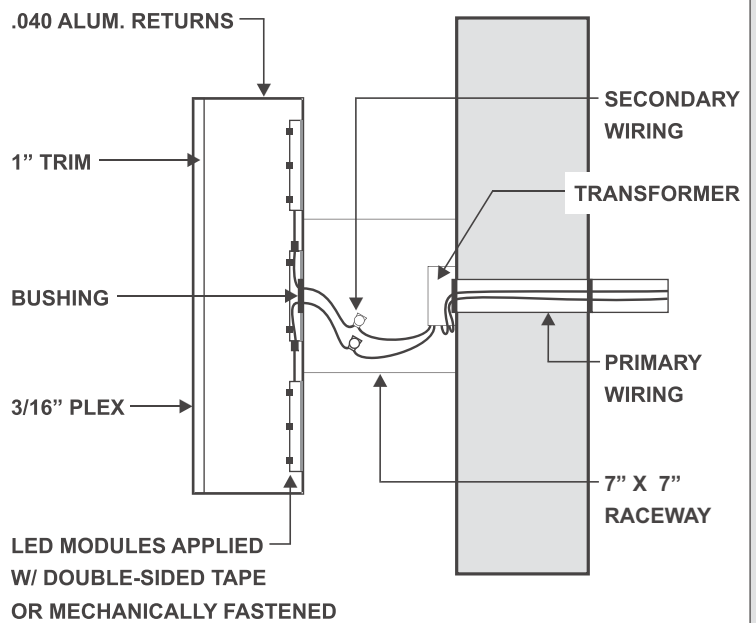
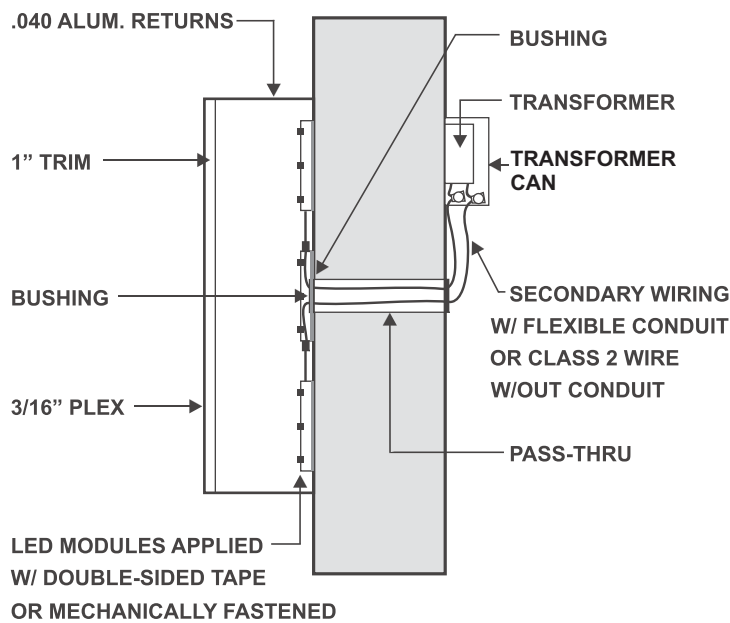
Z: Positive= Red, Negative= Blue  
 MegaWhite can use same wires as Pinnacle Series



WIRES W/ CONNECTORS ATTACHED TO ENDS OF A MODULE & EXITING THE LETTER



TOP VIEW OF WIRING EXAMPLE FOR BEHIND WALL OR IN RACEWAY



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