

AISLE LIGHTING SERIES



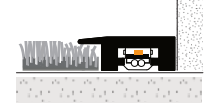
AL-C/F
CARPET TO FLOOR



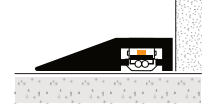
AL-C/C
CARPET TO CARPET



AL-F/F
FLOOR TO FLOOR



AL-C/W
CARPET TO WALL



AL-F/W
FLOOR TO WALL

CAREFULLY REVIEW THE FOLLOWING INFORMATION AND INSTALLATION STEPS TO ENSURE THE PRODUCT IS INSTALLED SAFELY AND CORRECTLY.

INSTALLATION MUST BE PERFORMED BY A LICENSED CONTRACTOR OR QUALIFIED ELECTRICIAN FAMILIAR WITH APPLICABLE CODES AND SAFETY STANDARDS. IMPROPER INSTALLATION CAN RESULT IN SERIOUS INJURY OR DEATH.

FAILURE TO FOLLOW THESE INSTRUCTIONS AND AS A RESULT OF INCORRECT INSTALLATION WILL VOID PRODUCT WARRANTY

MANUFACTURER ASSUMES NO LIABILITY FOR PRODUCT OR PROPERTY DAMAGE OR INJURY RESULTING FROM FAILURE TO FOLLOW THESE INSTRUCTIONS, MISUSE OF THE PRODUCT, OR INSTALLATION NOT PERFORMED IN ACCORDANCE WITH LOCAL BUILDING AND ELECTRICAL CODES

NEC AND LOCAL CODE AWARENESS

Installation must be done in accordance with (NEC) National Electrical Code and any other local code requirements

SAFETY WARNINGS

- Do not install this product outdoors
- Do not install this product in wet locations
- Do not connect direct to 120V, must use 12V transformers

IMPORTANT INSTALLATION NOTES

- Nice clean and precise cuts are required for a proper installation.
- Proper wiring connections.
- Proper adhesive and even distribution on floor, and extrusion.

GENERAL NOTES

Contact manufacture with any questions Ph: 661-495-5700 or info@primuslighting.com
Save these instructions for future reference.

INDEX

PAGE

| | |
|---|---|
| Aisle Lighting Series ----- | 1 |
| Important Notes ----- | 2 |
| Product Series & Details ----- | 3 |
| Typical Aisles Layout----- | 4 |
| Aisle Lighting Installation Guide Steps 1 - 3 ----- | 5 |
| Aisle Lighting Installation Guide Steps 4 - 7 ----- | 6 |
| Typical Power Feed & Transformers Layout ----- | 7 |
| Transformers - Maximum runs - Voltage drop ----- | 8 |

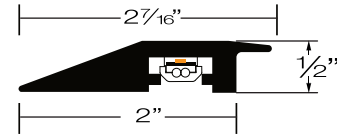
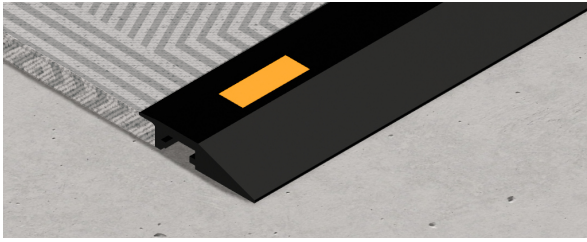
See Next Page For Product Details

AISLE LIGHTING (AL) SERIES

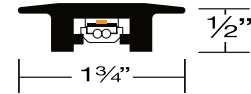
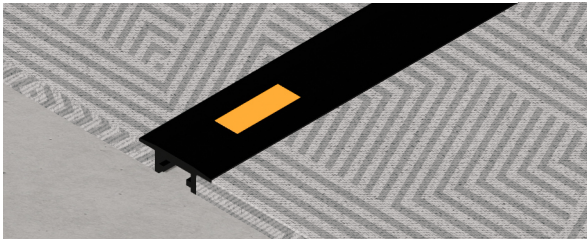
INSTALLATION GUIDE PRODUCT SERIES & DETAILS



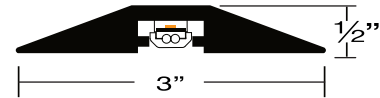
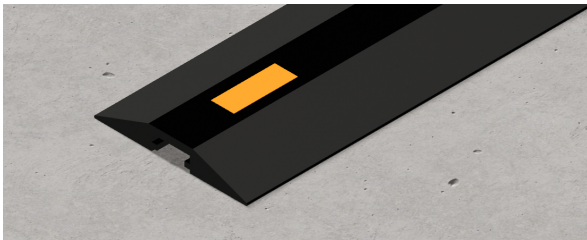
Please review the information below to get familiar with the product selection & details before moving forward with the installation.



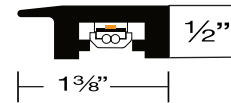
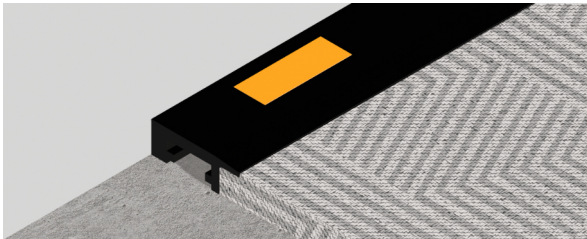
AL-C/F
CARPET TO FLOOR



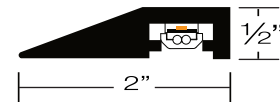
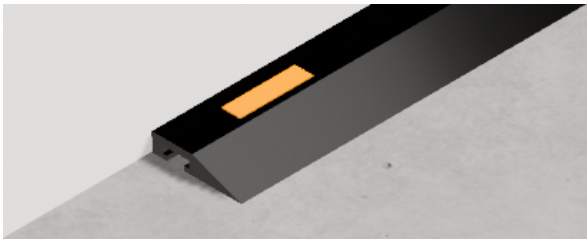
AL-C/C
CARPET TO CARPET



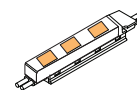
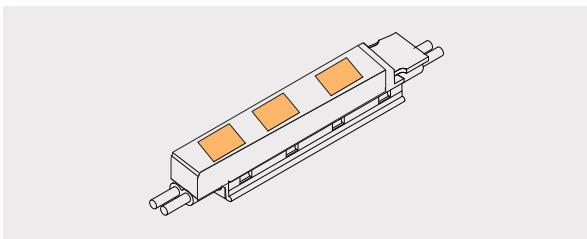
AL-F/F
FLOOR TO FLOOR



AL-C/W
CARPET TO WALL



AL-F/W
FLOOR TO WALL



AL-LRB
LED REPLACEABLE BOARD

AISLE LIGHTING (AL) SERIES

INSTALLATION GUIDE TYPICAL - AISLES LAYOUT

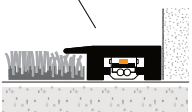
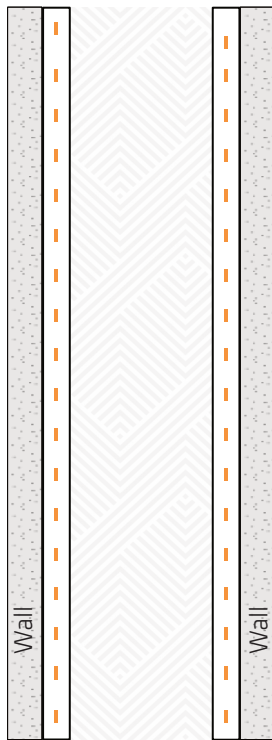
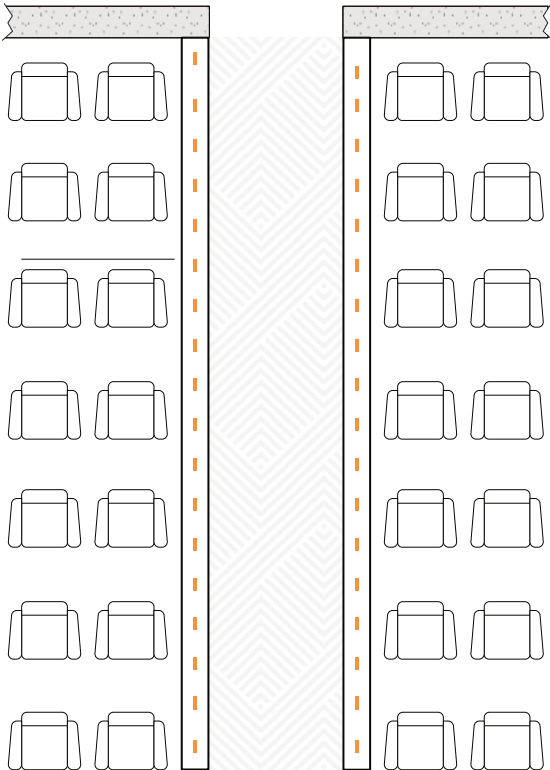
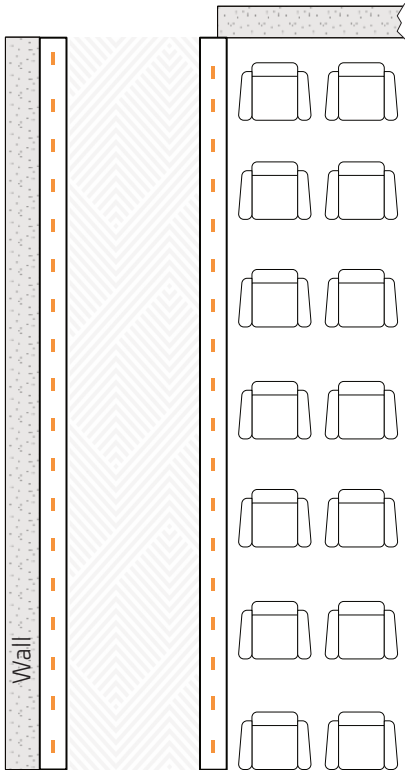


Review the information below to identify the type of aisles layout you have, before moving forward with the installation process.

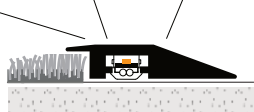
AISLE BETWEEN WALL & SEATS

AISLE BETWEEN SEATS

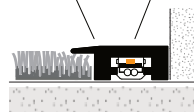
AISLE BETWEEN WALLS



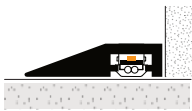
AL-C/W CARPET TO WALL



AL-C/F CARPET TO FLOOR



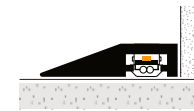
AL-C/W CARPET TO WALL



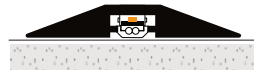
AL-F/W FLOOR TO WALL



AL-C/C CARPET TO CARPET



AL-F/W FLOOR TO WALL



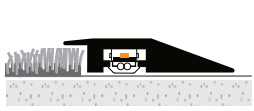
AL-F/F FLOOR TO FLOOR

AISLE LIGHTING (AL) SERIES

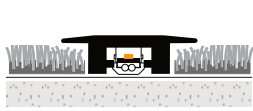
INSTALLATION GUIDE - STEPS 1 - 3



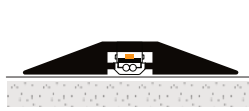
The following installation instructions are general guidelines and apply to all aisle lighting extrusion profiles below.



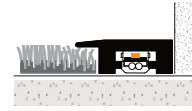
AL-C/F
CARPET TO FLOOR



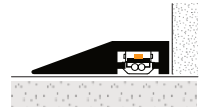
AL-C/C
CARPET TO CARPET



AL-F/F
FLOOR TO FLOOR



AL-C/W
CARPET TO WALL



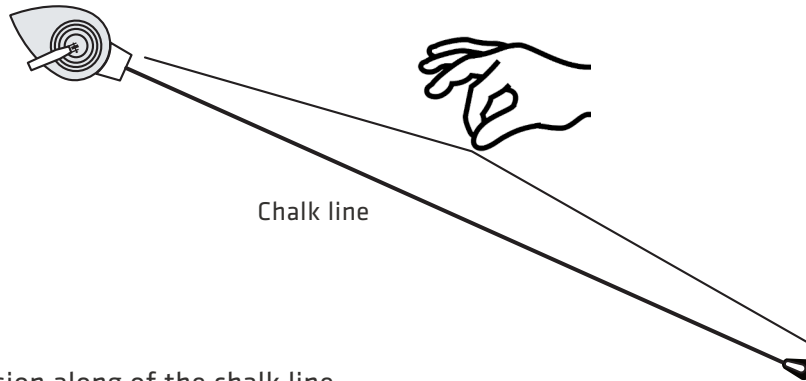
AL-F/W
FLOOR TO WALL

IMPORTANT INSTALLATION NOTES

Aisle lighting extrusions are shipped pre-cut to the required length, additional field cutting may still be required.
Aisle lighting extrusions are shipped pre-assembled

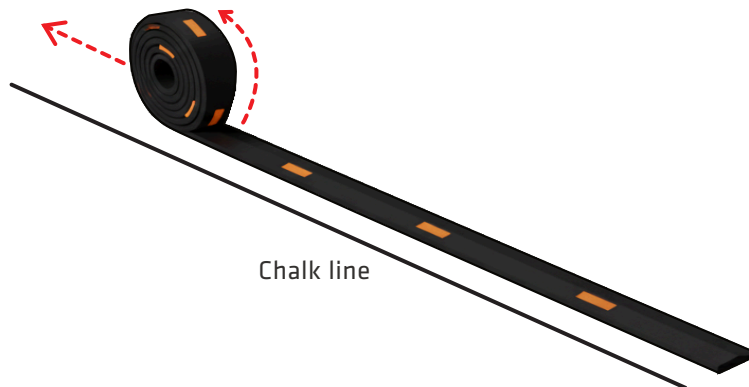
STEP 1

Prepare and clean mounting surface and draw a chalk line where the Aisle Lighting is required to be installed
No chalk line is necessary for Aisle Lighting adjacent to walls.



STEP 2

Unroll the aisle lighting extrusion along of the chalk line.



STEP 3

Measure and cut the extrusion to the proper length.
Remove from the extrusion the necessary wire and LED modules when cutting the extrusion.
Re-install any wire and modules removed after cutting is completed

AISLE LIGHTING (AL) SERIES

INSTALLATION GUIDE - STEPS 4 - 7



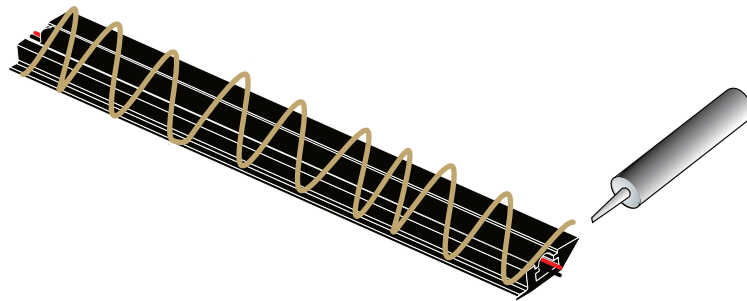
STEP 4

Make any necessary miter cuts for inside or outside corners, if no miter cuts are required skip this step. Remove from the extrusion the necessary wire and LED modules before making miter cuts. Re-install any wire and LED modules removed after miter cuts are completed.



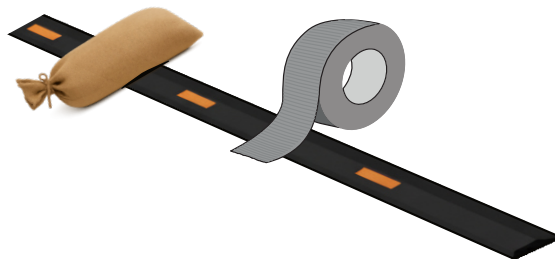
STEP 5

Apply the proper adhesive along the entire back of the extrusion and mounting surface and attach to the surface.



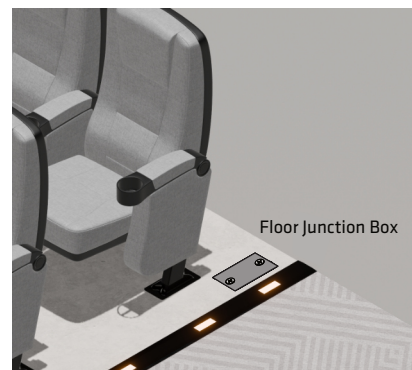
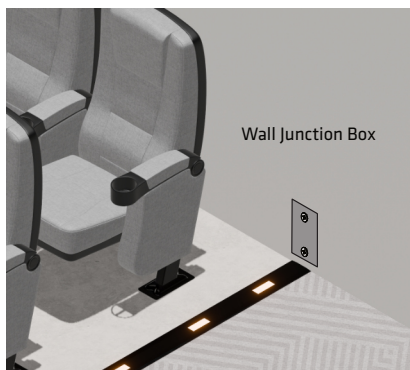
STEP 6

Apply the necessary means such as industrial grade tape and some kind of weight to hold the extrusion down to the floor until the adhesive cures.



STEP 7

Make the necessary wiring connections to the junction boxes and transformer. See page 7 for typical power feed, junction boxes and transformers layouts.



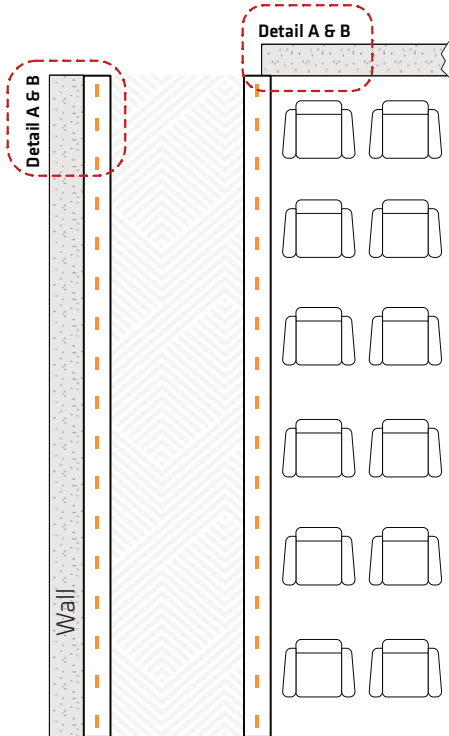
AISLE LIGHTING (AL) SERIES

INSTALLATION GUIDE
TYPICAL - AISLES LAYOUT & POWER FEED

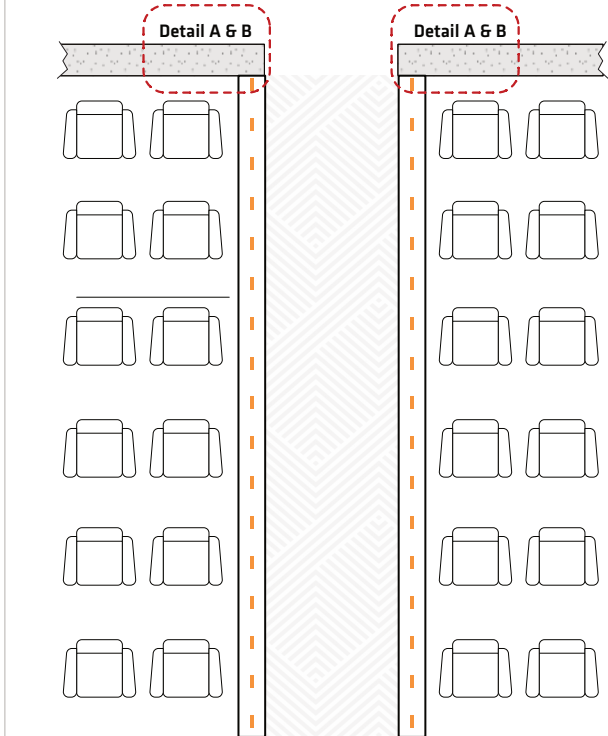


TYPICAL AISLES LAYOUT

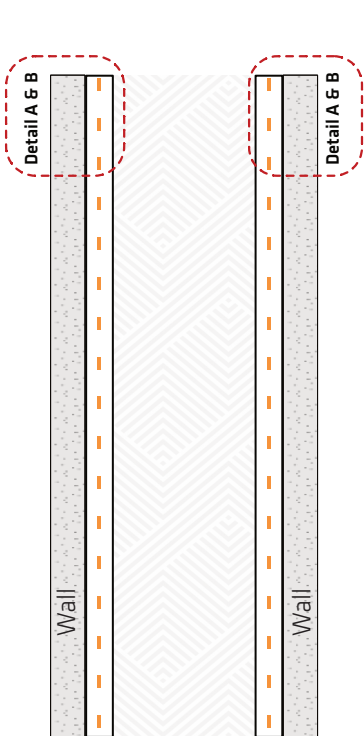
AISLE BETWEEN WALL & SEATS



AISLE BETWEEN SEATS



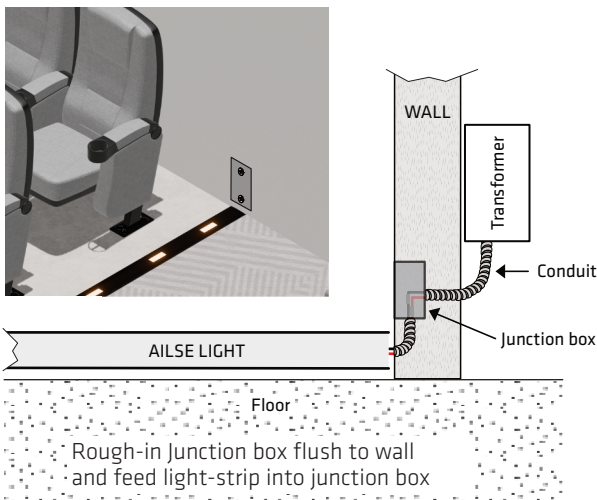
AISLE BETWEEN WALLS



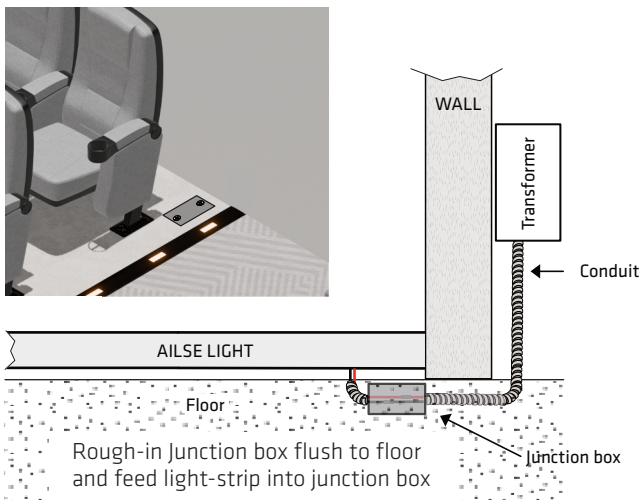
TYPICAL POWER FEED

The details below are examples only
The contractor is responsible for determining the most appropriate method to power feed the system. Contractor must identify the optimal location(s) for transformers and J-Boxes to ensure a proper and safe installation and in accordance with code requirements.

DETAIL A Wall Junction Box



DETAIL B Floor Junction Box



AISLE LIGHTING (AL) SERIES

INSTALLATION GUIDE

TRANSFORMERS - MAX RUNS - VOLTAGE DROP



TRANSFORMERS

- Class 2 magnetic transformer
- Secondary protection provided (reset-able 5A circuit breakers).
- Isolated secondary output.
- Outdoor listed enclosure NEMA 3R.
- Potted for quiet operation and long life.
- Dimmable with MLV dimmers only.
- ETL listed. Meets UL 1571, 1838 and Article 411 of N.E.C.



| PART NO. | WATTS | PRIMARY | SECONDARY | BREAKERS | DIMENSIONS | WEIGHT |
|--------------------|-------|---------|-----------|----------|-------------------------|--------|
| PLT2 -60 - 120/12 | 60W | 120VAC | 12VAC | 1 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 5 LBS |
| PLT2 -60 - 277/12 | 60W | 277VAC | 12VAC | 1 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 5 LBS |
| PLT2 -100 - 120/12 | 100W | 120VAC | 12VAC | 2 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 10 LBS |
| PLT2 -100 - 277/12 | 100W | 277VAC | 12VAC | 2 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 10 LBS |
| PLT2 -150 - 120/12 | 150W | 120VAC | 12VAC | 3 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 11 LBS |
| PLT2 -150 - 277/12 | 150W | 277VAC | 12VAC | 3 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 11 LBS |
| PLT2 -250 - 120/12 | 250W | 120VAC | 12VAC | 4 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 13 LBS |
| PLT2 -250 - 277/12 | 250W | 277VAC | 12VAC | 4 - 5A | 6 3/4" X 4 7/8" X 4 5/8 | 13 LBS |

MAXIMUM RUNS

The maximum recommended runs below are based on 80% load of 60W, 12V, 5A (80% of 60W is 48W, 12V, 4A).

| LED SPACING | WATTS / LED MODULE | WATTS / FT | MAX RUNS |
|-------------|--------------------|------------|----------------|
| 9" O/C | 0.25W | 0.33W | 144' (48W, 4A) |
| 12" O/C | 0.25W | 0.25W | 192' (48W, 4A) |
| 18" O/C | 0.25W | 0.17W | 282' (48W, 4A) |

VOLTAGE DROP

Maximum wire distance between the transformer and lighting system to prevent voltage drop

| LOAD (Watts) | 8AWG | 10AWG | 12AWG | 14AWG | 16AWG | 18AWG | 20AWG |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 10W | 1124' | 722' | 454' | 285' | 179' | 113' | 71' |
| 20W | 559' | 359' | 226' | 142' | 89' | 56' | 35' |
| 30W | 373' | 240' | 151' | 95' | 60' | 38' | 23' |
| 40W | 280' | 180' | 113' | 71' | 45' | 28' | 18' |
| 280' | 224' | 144' | 90' | 57' | 36' | 23' | 14' |
| 60W | 187' | 120' | 75' | 47' | 30' | 19' | 12' |