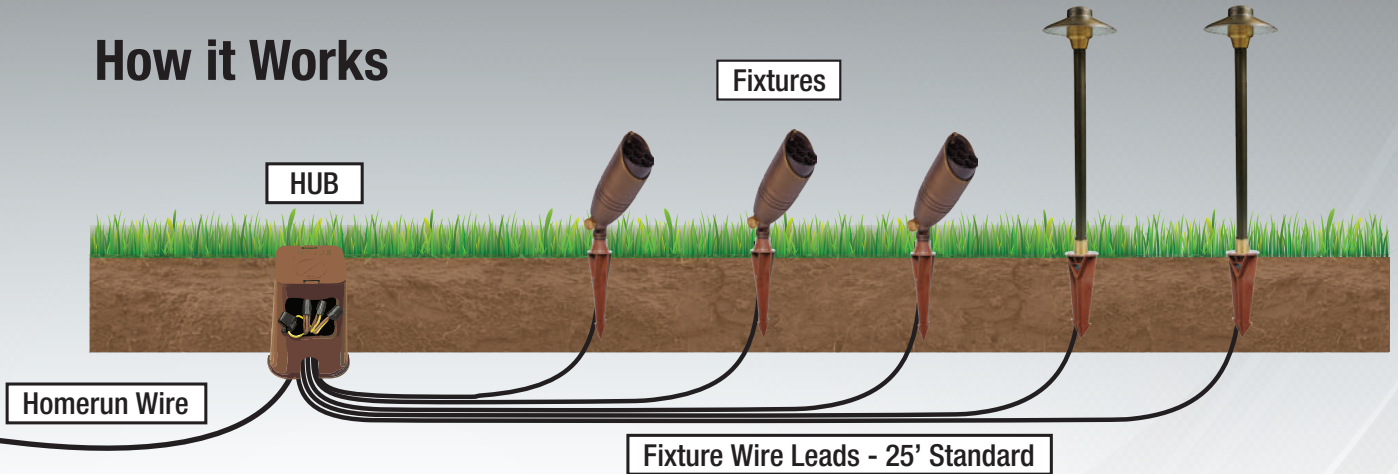




HUBs

HUB Wiring System

How it Works



1

From Transformer

From Fixtures

Feed homerun and fixture wires through HUB.

2

Ribbed Wires

Connect all ribbed fixture wires to the ribbed homerun wire. Insert all wire joins into provided grease cap.

3

with writing

Connect homerun wire with writing to one side of fuse link (except for FHUB).

4

with writing

with writing

with writing

with writing

Connect fixture wires with writing to other side of fuse link. Select and install proper fuse to match fixture load.

5

Insert all wire joins into provided grease cap. Thread on cap.

6

UNIQUE LIGHTING

1/10

Push wires into HUB body. Install lid. Use paint pen to label hub and transformer number.

The Equalizer™ HUB Wiring System is the ultimate In-Line fuse protected wiring system. Allowing you to size the fuse according to load or wire size, thus making troubleshooting accessible, convenient and fast. You wouldn't purchase a home or an automobile without fuse protection...An outdoor lighting system warrants the same respect!



25 Fixture System Example

Unique Lighting Systems® fixtures come standard with a 25' wire lead.

Take It To The Next Level!

The Intelli-HUB Method Advantages



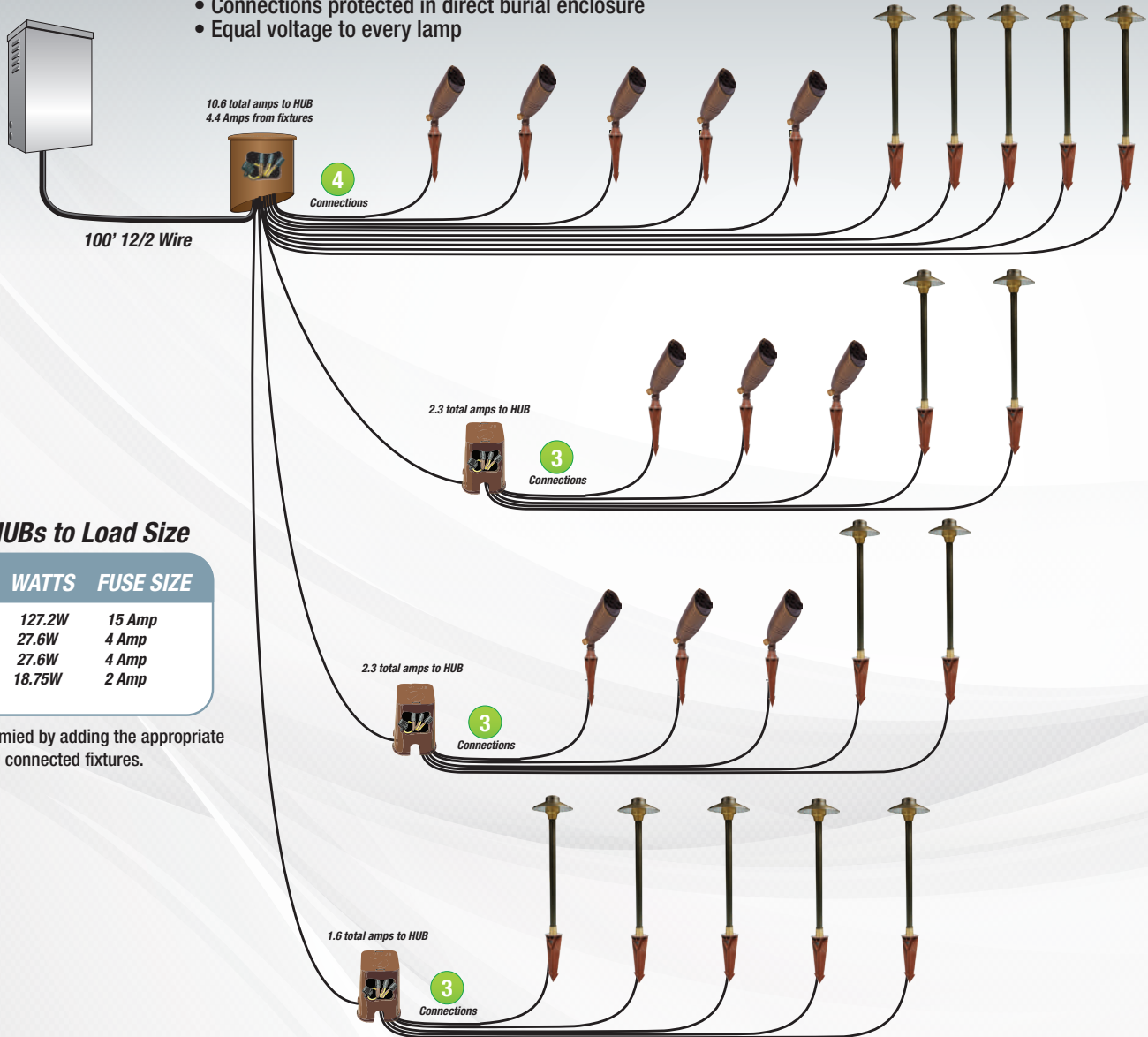
- 18/2 - 25' wire lead on each fixture
- Secondary fuse for protection included at the HUB
- Only need to check voltage at the hub vs. every fixture
- One point of connection per home run
- Connections protected in direct burial enclosure
- Equal voltage to every lamp

13
CONNECTIONS

EASY
TROUBLE SHOOTING

SAVES TIME

FUSED TO LOAD



Fuse HUBs to Load Size

HUB	WATTS	FUSE SIZE
Intelli-HUB	127.2W	15 Amp
SAT HUB 1	27.6W	4 Amp
SAT HUB 2	27.6W	4 Amp
SAT HUB 3	18.75W	2 Amp

Load is determined by adding the appropriate draw from all connected fixtures.

The "T" Method

34 CONNECTIONS + NOT FUSED + MORE TIME = PRONE TO FAILURE

The Daisy Chain Method

50 CONNECTIONS + NOT FUSED + MORE TIME = PRONE TO FAILURE

The Loop Method

50 CONNECTIONS + NOT FUSED + MORE TIME = PRONE TO FAILURE



5 Fixture Example

Unique Lighting Systems® fixtures come standard with a 25' wire lead.

See The Difference! Advantages



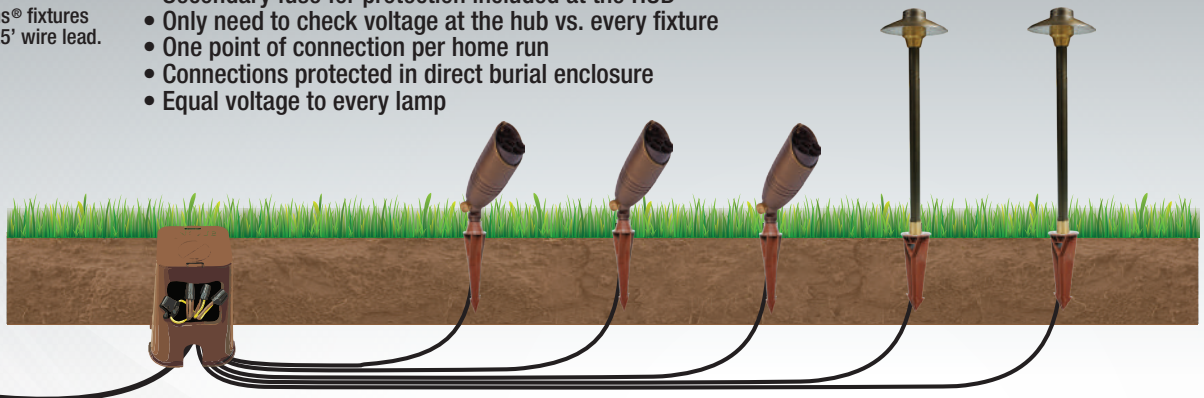
3
CONNECTIONS

EASY
TROUBLE SHOOTING

SAVES
TIME

FUSED
TO LOAD

- Secondary fuse for protection included at the HUB
- Only need to check voltage at the hub vs. every fixture
- One point of connection per home run
- Connections protected in direct burial enclosure
- Equal voltage to every lamp



6 CONNECTIONS + **NOT FUSED** + **MORE TIME** = **PRONE TO FAILURE**



The "T" Method Disadvantages



- Difficult to troubleshoot
- Short wire lead does not allow for final adjustment of lighting portrait
- Does not equalize voltage to all lamps on the run

10 CONNECTIONS + **NOT FUSED** + **MORE TIME** = **PRONE TO FAILURE**

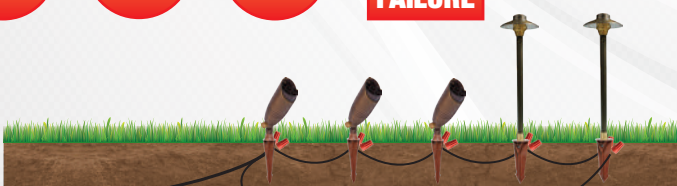


The Daisy Chain Method Disadvantages



- Difficult to troubleshoot
- Short wire lead does not allow for final adjustment of lighting portrait
- Does not equalize voltage to all lamps on the run

10 CONNECTIONS + **NOT FUSED** + **MORE TIME** = **PRONE TO FAILURE**



The Loop Method Disadvantages

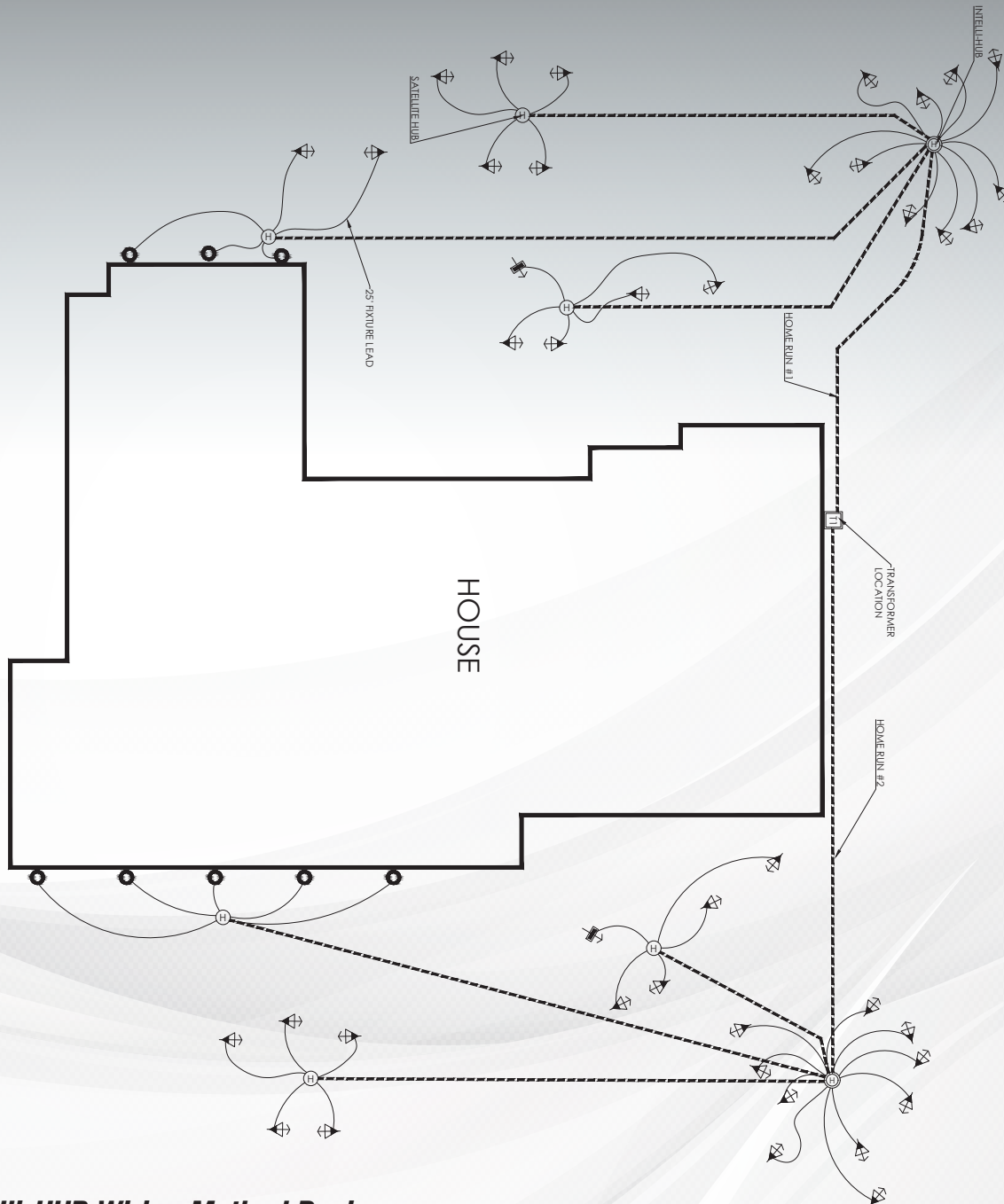


- Difficult to troubleshoot
- Short wire lead does not allow for final adjustment of lighting portrait
- Does not equalize voltage to all lamps on the run
- You **MUST** match the polarity or you can cause bodily harm or damage to the circuit
- Wastes a lot of wire completing the loop



HUBs

HUB Wiring System



Intelli-HUB Wiring Method Design

Shown here is an actual Intelli-HUB wiring design. As you can see, the Intelli-HUB wiring method not only reduces the number of connections in the field, it is the safest way to install low voltage lighting. By fusing HUBs in the field, total system failures are greatly reduced. Allowing you to enjoy your system for years without worry of a short or a redesign years down the road. A few advantages of the HUB wiring method:

- Utilizing the same home run, you can branch off from the larger Intelli-HUB to secondary HUBs known as a Satellite HUBs
- All HUB/fixture connections are fused to the load for safety
- All connections are in easy to find locations
 - Fused for ***SAFETY***
 - Easy to check voltage
 - Easily trouble shoot