

- ① Install ceiling bracket and canopy onto junction box as shown.
- ② Connect wires based on wiring diagram (refer to appropriate wiring diagram page).

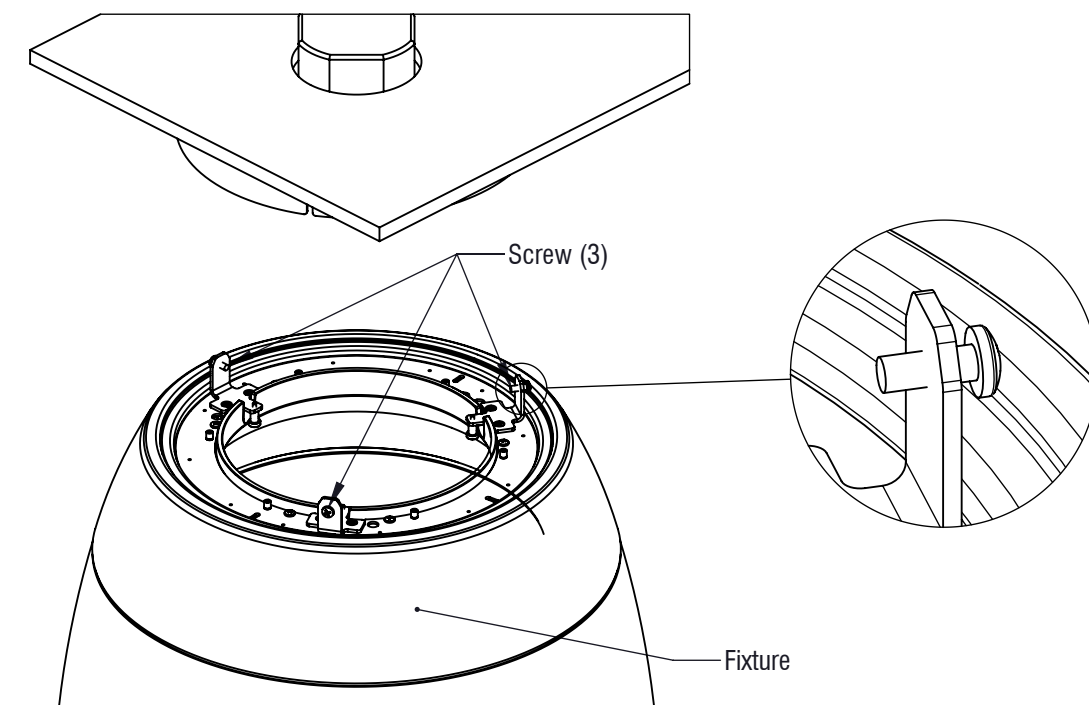
Fixture Weight: 16 lbs



**Risk of fire and electrical shock.**  
Disconnect power at electrical panel before servicing.  
Fixture must be installed by a qualified electrician only in accordance with national, local building and electrical codes.

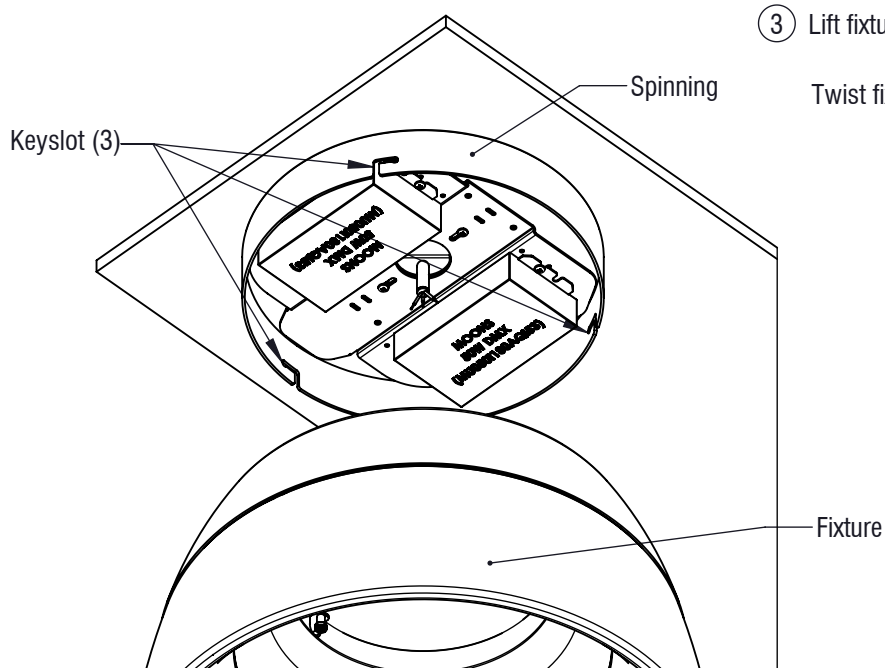
### NOTES:

Do not energize luminaire until installation is completed.  
General contractor is responsible for providing appropriate anchoring devices to support load of fixture.  
Please call customer service for any questions.



③ Lift fixture into keyslots (ensuring screws aren't fully screwed in).

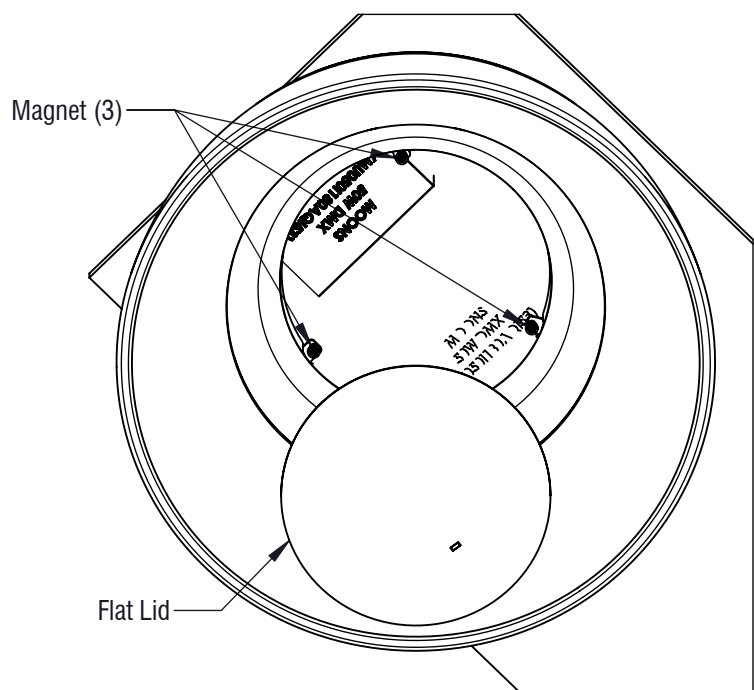
Twist fixture clockwise to lock it in place and fasten screws.



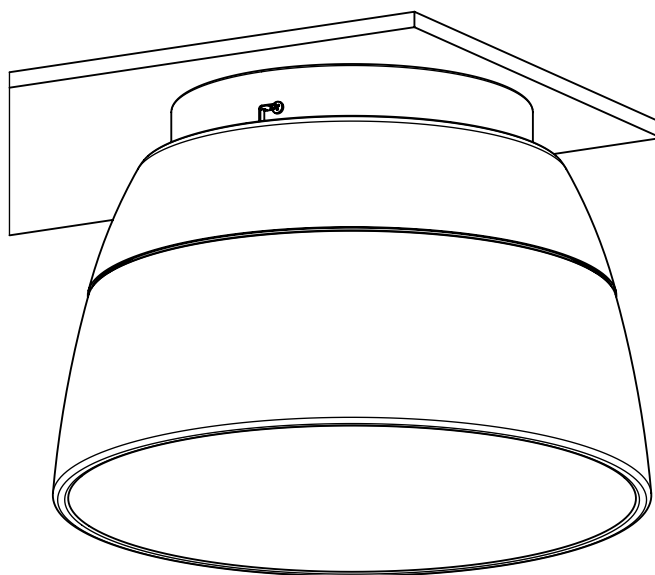
**Risk of fire and electrical shock.**  
Disconnect power at electrical panel before servicing.  
Fixture must be installed by a qualified electrician only in accordance with national, local building and electrical codes.

### NOTES:

Do not energize luminaire until installation is completed.  
General contractor is responsible for providing appropriate anchoring devices to support load of fixture.  
Please call customer service for any questions.



④ Install flat lid by lifting and pressing against magnets.

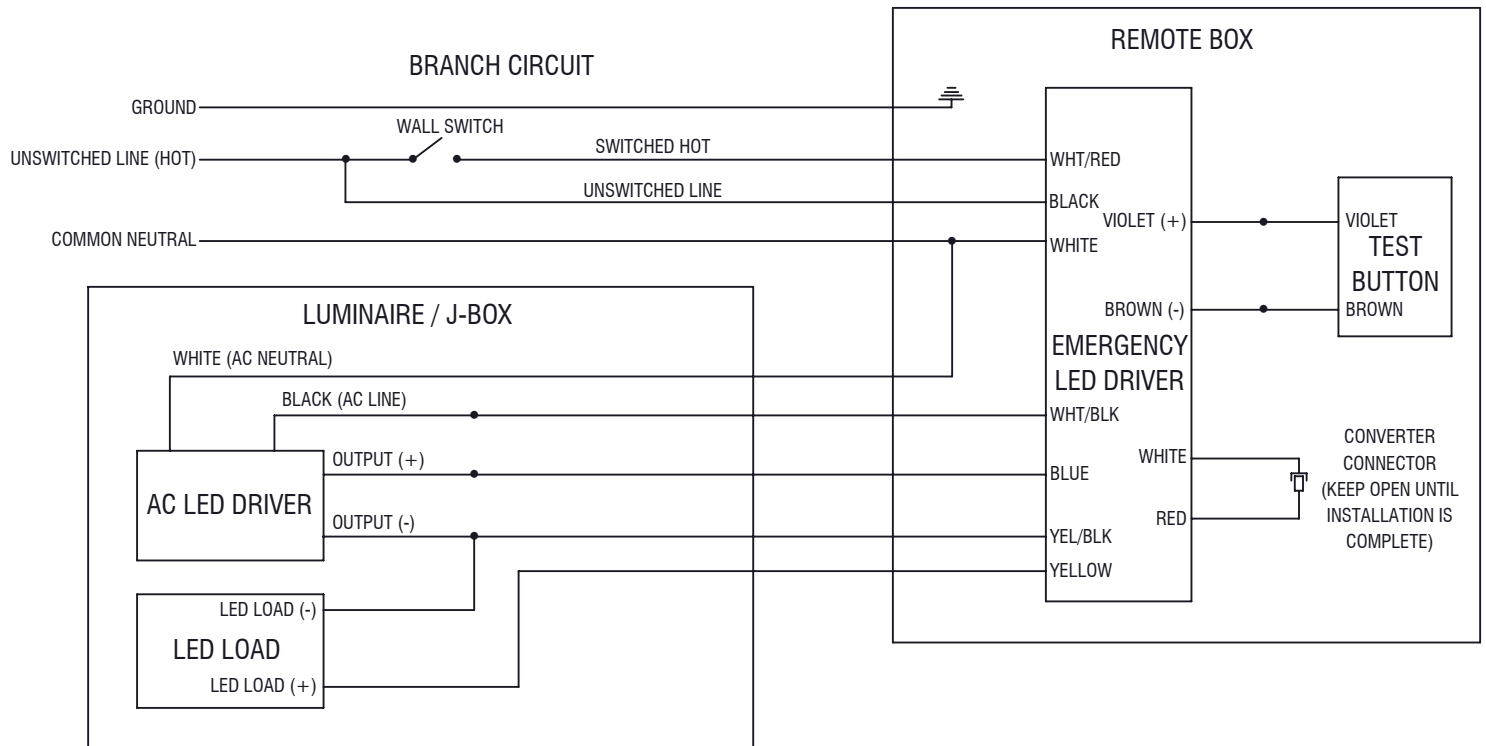


**Risk of fire and electrical shock.**  
Disconnect power at electrical panel before servicing.  
Fixture must be installed by a qualified electrician only in accordance with national, local building and electrical codes.

### NOTES:

Do not energize luminaire until installation is completed.  
General contractor is responsible for providing appropriate anchoring devices to support load of fixture.  
Please call customer service for any questions.

### WIRING DIAGRAM



**Risk of fire and electrical shock.**  
Disconnect power at electrical panel before servicing.  
Fixture must be installed by a qualified electrician only in accordance with national, local building and electrical codes.

#### NOTES:

Do not energize luminaire until installation is completed.  
General contractor is responsible for providing appropriate anchoring devices to support load of fixture.  
Please call customer service for any questions.

## INTRODUCTION TO DMX/RDM

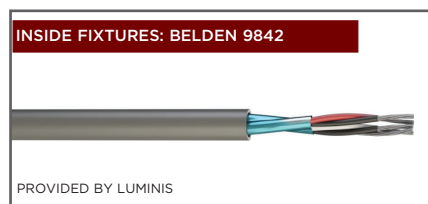
DMX<sup>1</sup> is a 3-wired unidirectional digital protocol based on RS-485. The DMX address of each DMX fixture is usually set manually on the fixture itself. RDM is an extension to DMX that allows bi-directional communication and the ability to change the DMX address remotely with an RDM controller.



## CABLE REQUIREMENTS

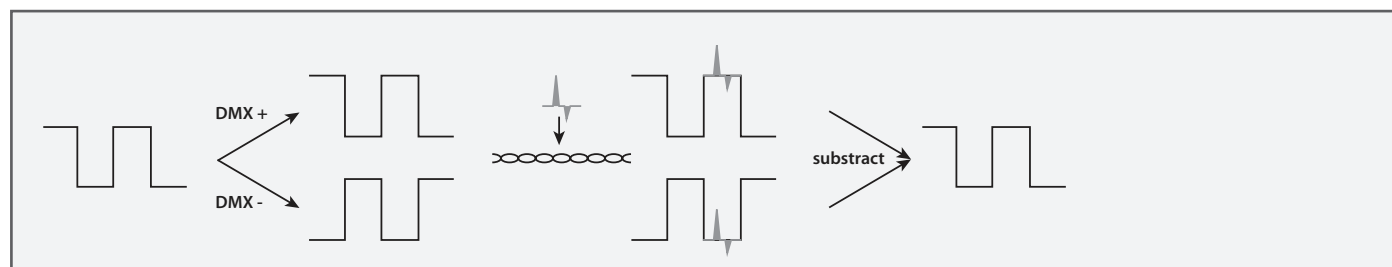
USE ONLY DEDICATED RS-485 DMX CABLE AND ENSURE THAT DMX CABLES DO NOT RUN IN THE SAME ENCLOSURE AS CLASS 1 CIRCUITS, SUCH AS MAIN POWER.

- 24 AWG
- Use odd number of Twisted Pair wire - See figure A
- Capacitance of 11 pF/ft or less
- 120 ohm typical impedance - See figure B
- Shielding around each twisted pair
- During installation, untwist the pairs as little as possible

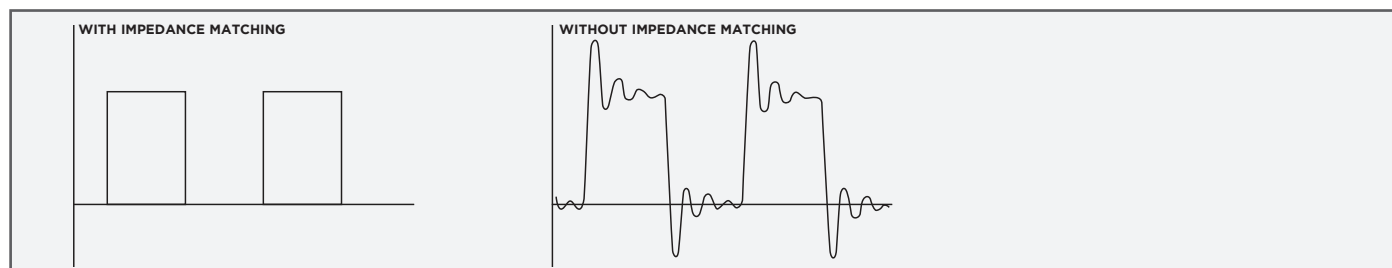


\*or equivalent; it is the responsibility of the installer to select and provide a DMX cable that fits the RS-485 standard requirements. Luminis will not be liable for any issues caused by unsuitable cable selection or incorrect wiring.

**FIGURE A - USING SHIELDED TWISTED PAIR WIRE WILL REDUCE THE RISK OF EXTERNAL INTERFERENCE PICK-UP (I.E. FLICKERING, STROBING, ETC)**

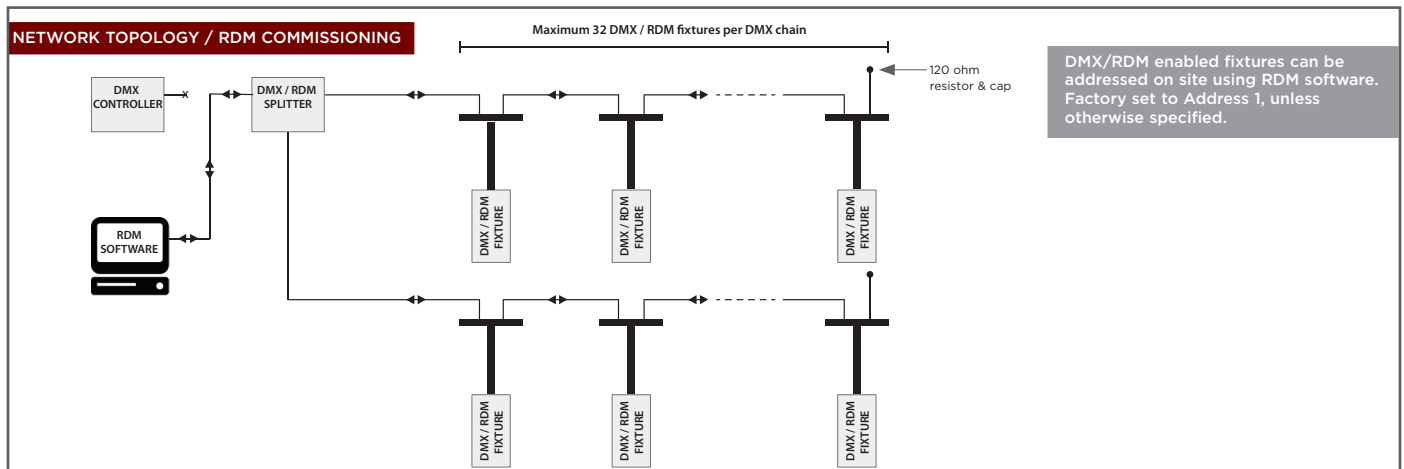
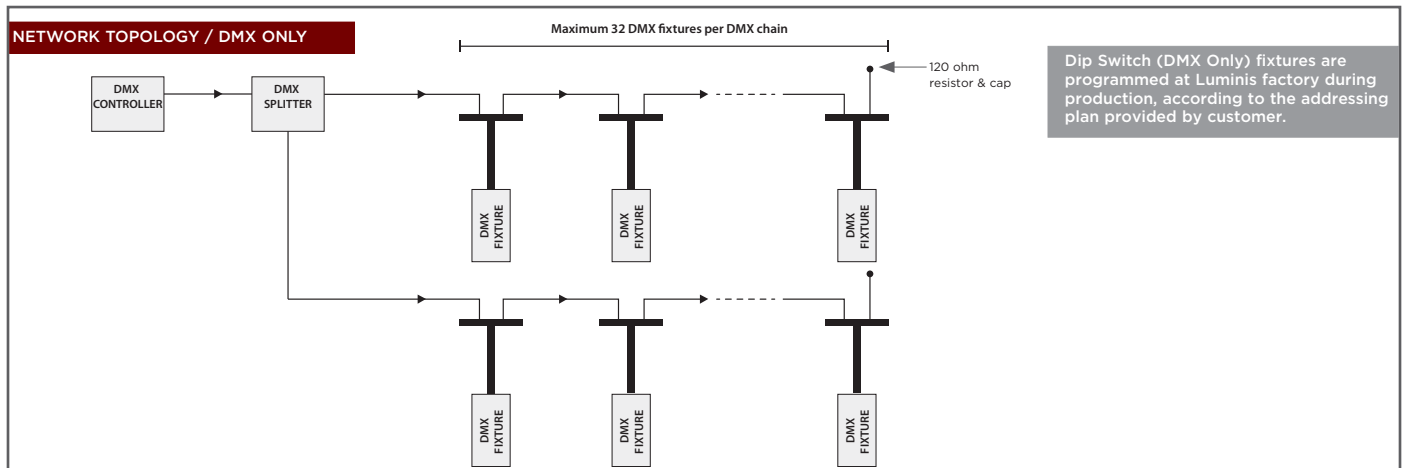


**FIGURE B - USING CABLES WITH THE SAME TYPICAL IMPEDANCE WILL REDUCE THE RISK OF SIGNAL REFLECTIONS**



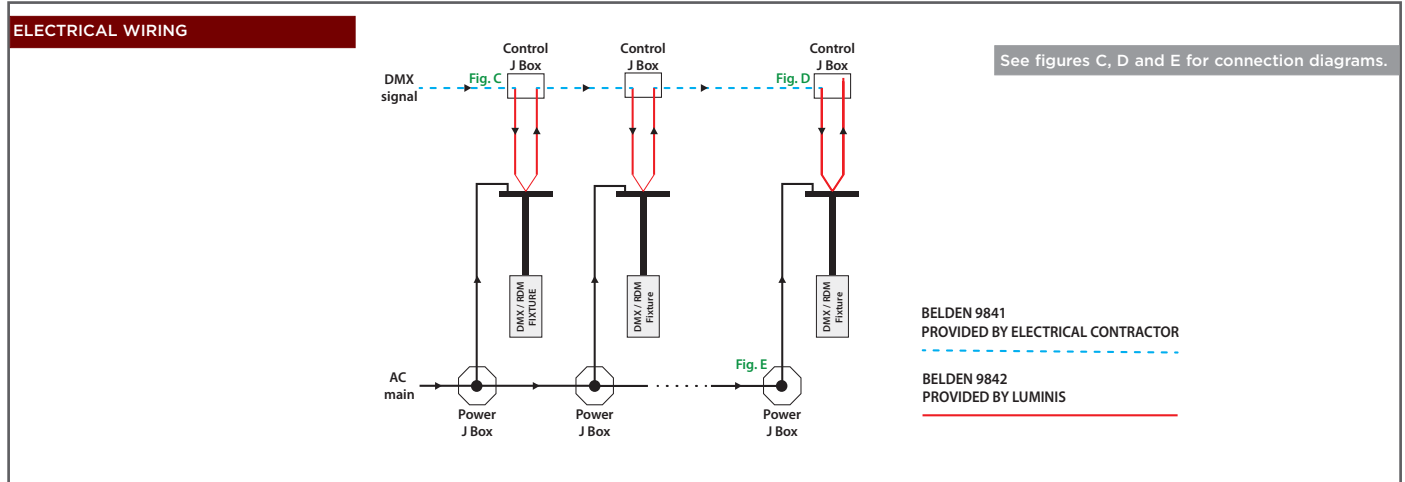
## NETWORK TOPOLOGY

- Use a DMX splitter to connect multiple DMX chains. [Example of DMX splitter: DIN-RDS4 from Enttec]
- Limit the number of DMX fixtures to a maximum of 32 per DMX chain.
- Limit the cabling between the last DMX fixture and the DMX controller to less than 1000'.
- Terminate end of line with a 120 ohm resistor and cap DMX shield after the last DMX fixture.

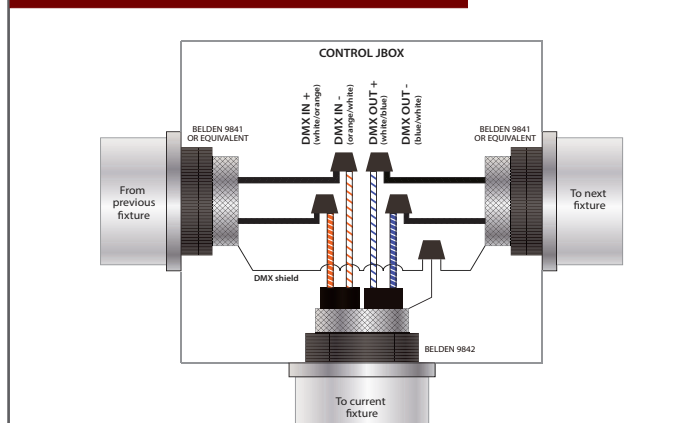


## HOW TO WIRE A DMX FIXTURE

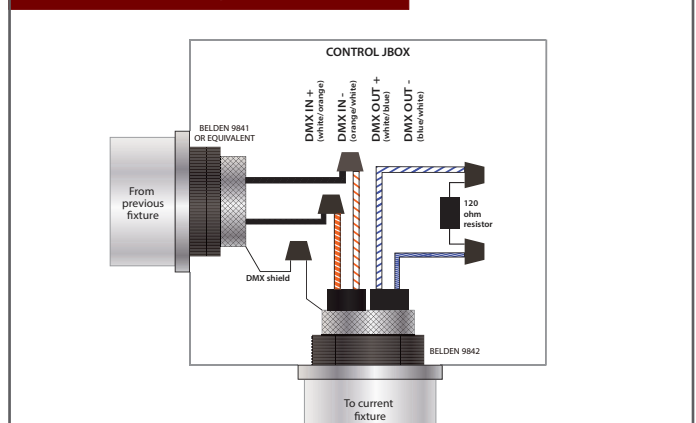
ACCORDING TO THE NATIONAL ELECTRICAL CODE ART. 800.133<sup>2</sup>, COMMUNICATION CABLES SHALL NEVER RUN IN THE SAME JUNCTION BOX, RACEWAY, CABLE TRAY OF ANY KIND OF ENCLOSURE WITH CLASS 1 CIRCUITS, SUCH AS AC MAIN POWER LINES.



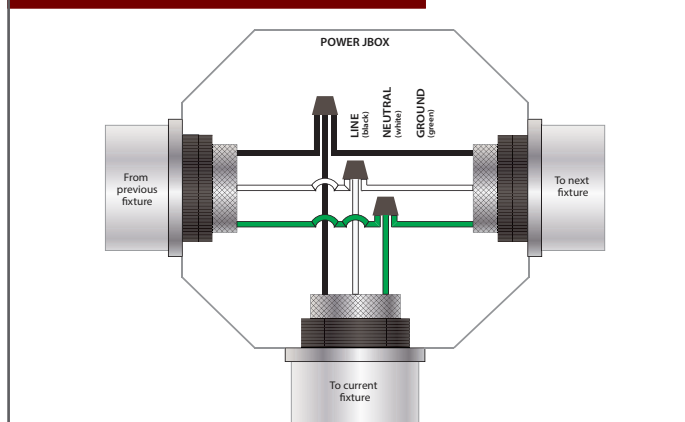
**FIGURE C - DMX SIGNAL / BETWEEN FIXTURES**



**FIGURE D - DMX SIGNAL / LAST FIXTURE**



**FIGURE E - MAIN POWER CONNECTIONS**



In case of any questions regarding this document, please contact your Luminis sales representative.

<sup>1</sup> DMX standard, as defined in ANSI E1.11-2009 (R2013)

<sup>2</sup> National Electrical Code, 2014 edition