



DL-AC-FLEX-ODR

INFINA® LED FLEXIBLE LINEAR
AC FLEXIBLE LINEAR STRIP

PATENT NO.:9,671,075
PATENT NO.:9,746,144

Type	
Project	
Catalog No.	

OUTDOOR HARDWARE INSTALLATION INSTRUCTIONS

Please read and save these instructions. Read carefully before using product. Protect yourself and others by observing all safety information, warnings and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instruction sheet for future reference.

DO NOT CUT OR SHORTEN INFINA. DOING SO CAN CAUSE RISK OF ELECTRICAL SHOCK.

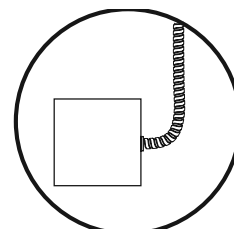
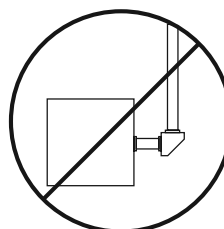
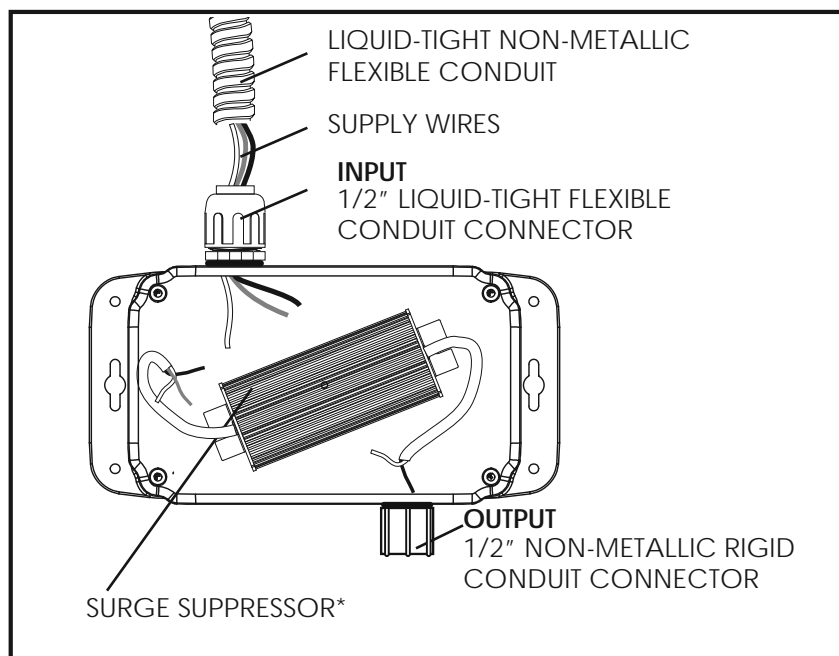


IMPORTANT SAFETY INSTRUCTIONS



All electrical connections must be in accordance with local codes, ordinances and the National Electric Code. This product operates on 120 VAC; always confirm the maximum wattage of the linear strip does not exceed the maximum wattage of the circuit it is connected to. If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified licensed electrician.

- Do not cover this product as the covering may cause the flexible light to overheat and melt or ignite.
- Do not operate with the flexible light while attached to plastic spool or tightly coiled. Excess heat may melt the spool and/or strip light.
- Do not puncture, cut, shorten, or splice the flexible lighting.
- Do not route the cord or flexible lighting cable through walls, doors, windows or any like part of the building structure.
- Do not use if there is any damage to the light or cord insulation. Inspect periodically.
- Do not submerge flexible light in liquids or use the product in the vicinity of standing water or other liquids.
- Do not install near areas with exposure to salt water or chlorinated water.
- Secure this flexible light using only only hangers or clips provided. Do not secure this product with staples, nails, or like means that may damage the insulation or permanently attach to the building structure.
- Do not subject flexible lighting to continuous flexing.
- Do not exceed the length in feet permitted by the marking.
- Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.



FLEXIBLE CONDUIT ONLY



***DO NOT REMOVE SURGE SUPPRESSOR**
Doing so is in direct violation to UL requirements and will void the warranty of the product.

SAVE THESE INSTRUCTIONS



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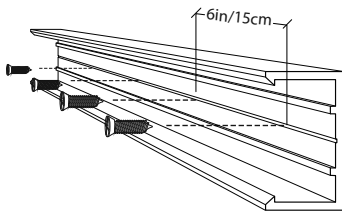
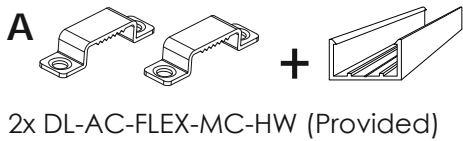
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MOUNTING OPTIONS

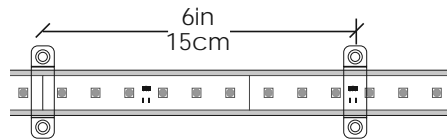
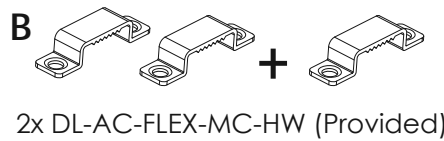
Excluding metal channel mounting, please see DL-AC-FLEX-CH6-M installation sheet

 **Per UL safety requirements, DL-AC-FLEX-MC-HW mounting clips must be used in mounting at the beginning and the end of each section of DL-AC-FLEX in a run.**

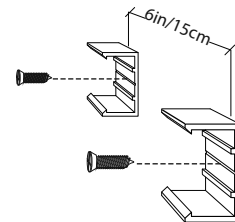
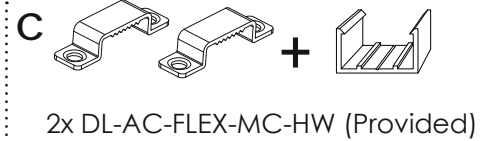
INCLUDED
DL-AC-FLEX-MC-HW
Required 2 per section

Secure channel on wall or other surfaces with self-tapping screws every 6 inches.
NOTE: 2 hardwire clips (provided) must be used to secure the beginning and the end of each section of DL-AC-FLEX.

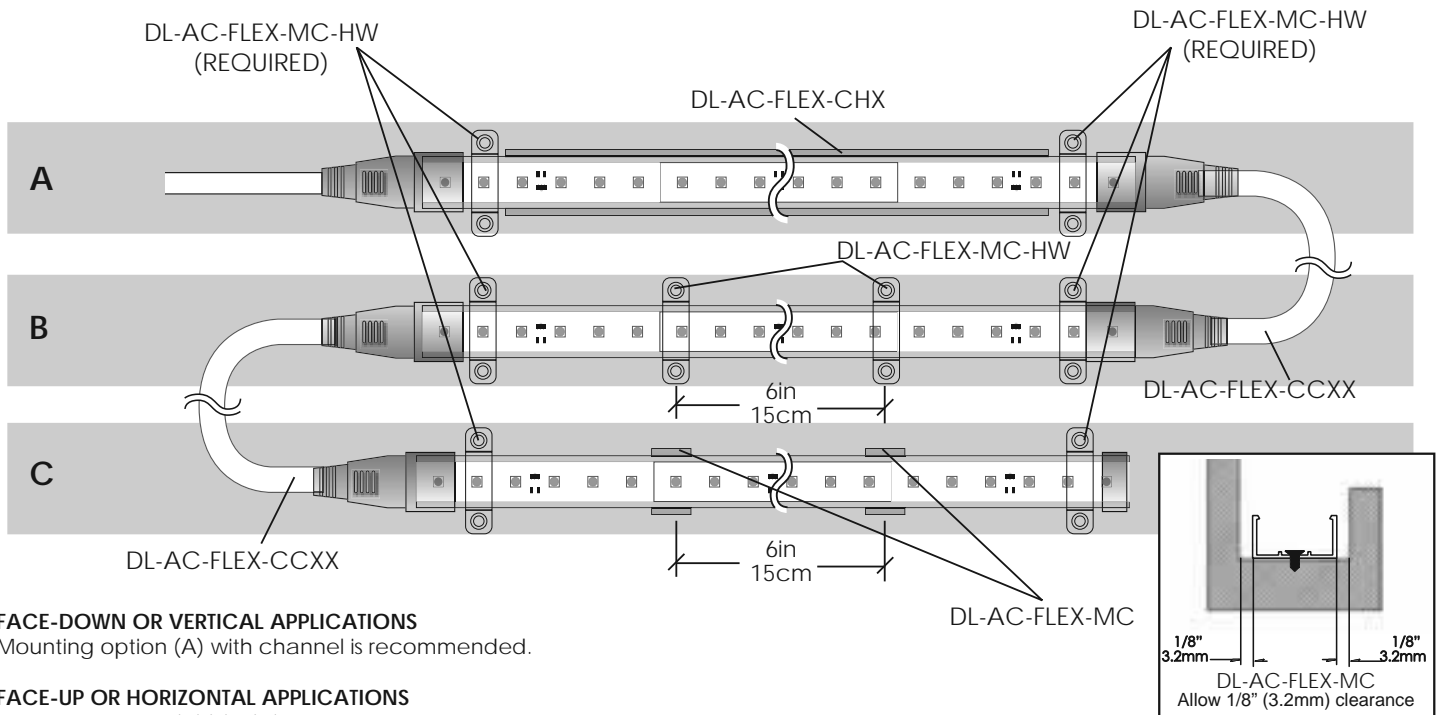


Secure hardwire clips on DL-AC-FLEX with self-tapping screws. To prevent sagging on face-down application, we recommend to install hardwire clips 6" (15cm) apart.
NOTE: 2 hardwire clips (provided) must be used to secure the beginning and the end of each section of DL-AC-FLEX.



Secure mounting U clips on wall or other surfaces with self-tapping screws every 6 inches.
NOTE: 2 hardwire clips (provided) must be used to secure the beginning and the end of each section of DL-AC-FLEX.

Illustration is a representation of three sections of DL-AC-FLEX in one run using methods A, B & C (not to scale, not for installation)



FACE-DOWN OR VERTICAL APPLICATIONS
Mounting option (A) with channel is recommended.

FACE-UP OR HORIZONTAL APPLICATIONS
Mounting option (A)(B)&(C) are all appropriate.



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OUTDOOR HARDWARE INSTALLATION INSTRUCTIONS



TURN OFF ELECTRICITY

at main fuse box (or circuit breaker box) before beginning installation by switching circuit breaker off or removing fuse.

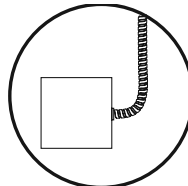
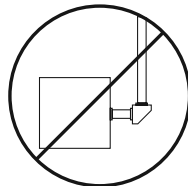
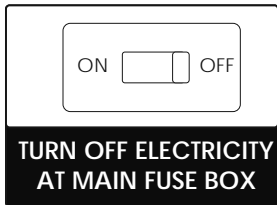
MIN 90° C SUPPLY CONDUCTORS.



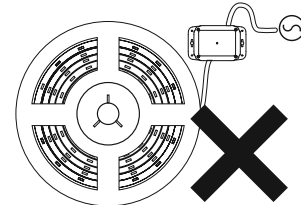
CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT

RATED 120VOLT AC | 4.95Watt / Foot

NOTE: ALL CONNECTIONS MUST BE PROPERLY SEURED AND SEALED FOR OUTDOOR INSTALLATIONS.



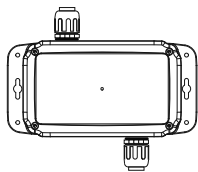
FLEXIBLE CONDUIT ONLY FOR INPUT CONNECTION



NEVER POWER THE STRIP LIGHT WHILE ATTACHED TO A SPOOL OR WHEN TIGHTLY COILED.

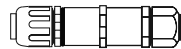
REQUIRED PARTS FOR INSTALLATION

DL-AC-FLEX-HW-ODR (Included)



NEMA 4X RATED ENCLOSURE WITH SURGE SUPPRESSOR AND INPUT CONNECTION TO 1/2"Ø NON-METALLIC FLEXIBLE CONDUIT & OUTPUT CONNECTION TO 1/2"Ø NON-METALLIC RIGID CONDUIT

DL-AC-FLEX-HW-ODR-CONN (Included)



COUPLER 1/2" LIQUID-TIGHT RIGID CONDUIT CONNECTOR TO 1/2" LIQUID-TIGHT CORD GRIP CONNECTOR

LIQUID-TIGHT NON-METALLIC FLEXIBLE CONDUIT (Not Included)



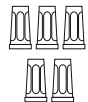
REQUIRED FOR INPUT CONNECTION 1/2" NON-METALLIC LIQUID-TIGHT FLEXIBLE CONDUIT MUST BE UL, ETL OR CSA APPROVED

LIQUID-TIGHT NON-METALLIC RIGID CONDUIT (Not Included)



OUTPUT CONNECTION ONLY 1/2" NON-METALLIC RIGID CONDUIT MUST BE UL, ETL OR CSA APPROVED

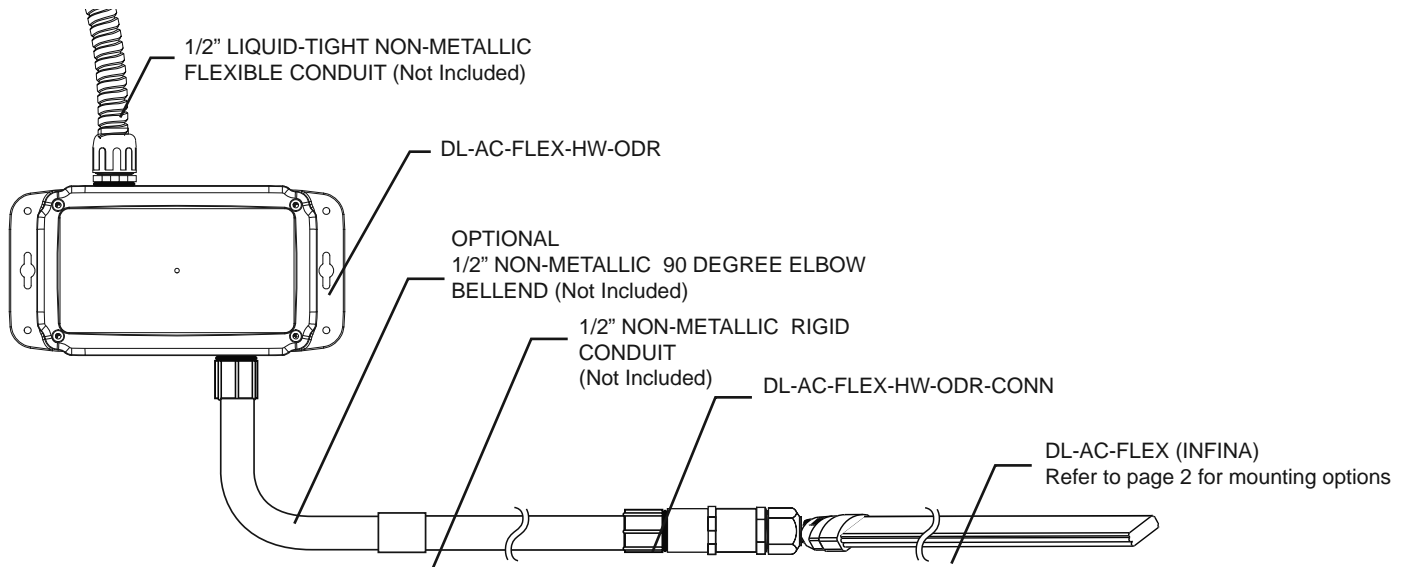
WIRE NUTS (Not Included)



PVC SEALANT (Not Included)



TYPICAL INSTALLATION



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TURN OFF ELECTRICITY

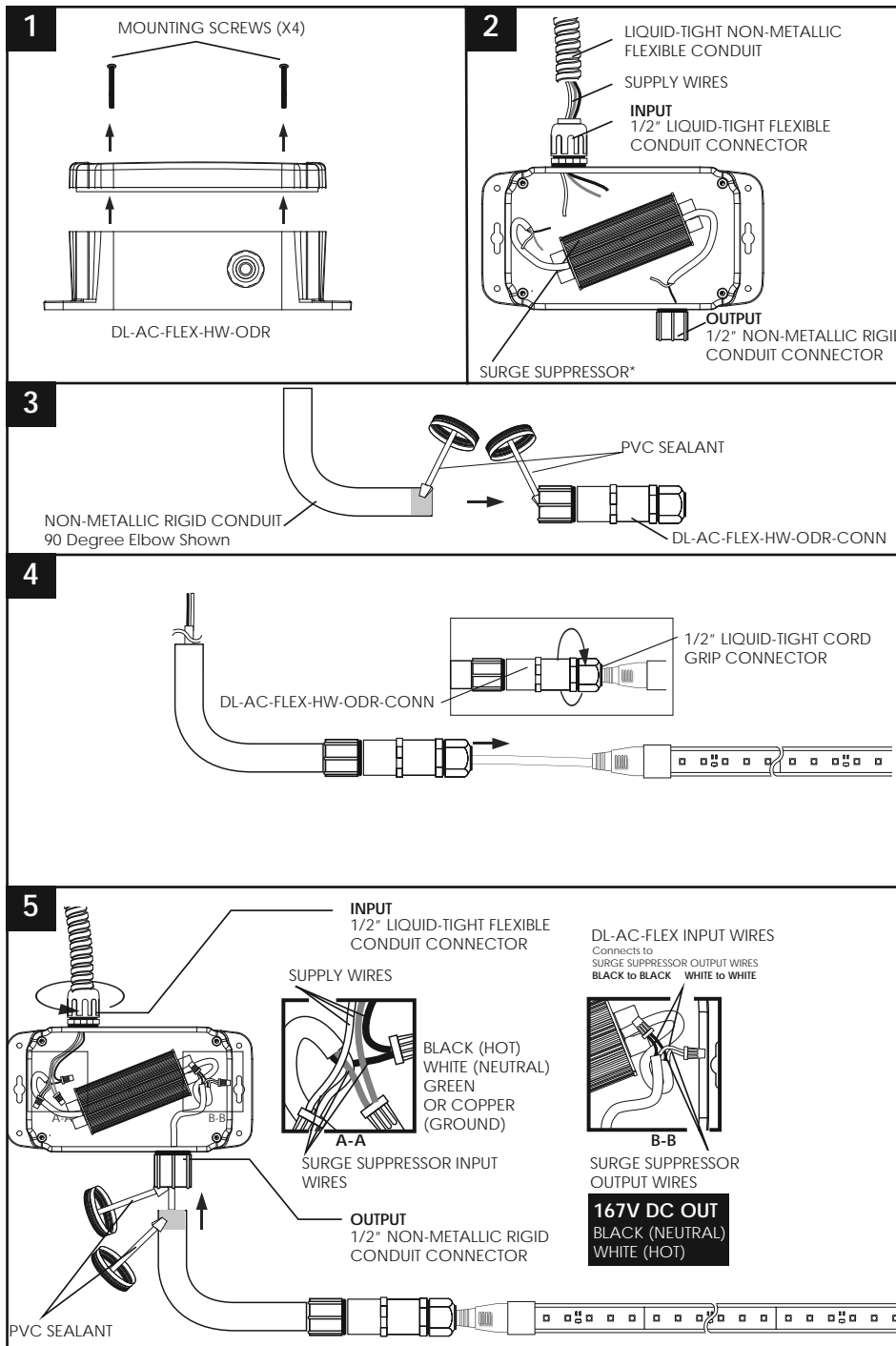
at main fuse box (or circuit breaker box) before beginning installation by switching circuit breaker off or removing fuse.

MIN 90° C SUPPLY CONDUCTORS.



CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT

RATED 120VOLT AC | 4.95Watt / Foot



***DO NOT REMOVE SURGE SUPPRESSOR**
void the warranty of the product.

1 Unscrew and remove mounting screws and remove lid from DL-AC-FLEX-HW-ODR, save for later use.

2 Feed supply wires and liquid-tight non metallic flexible conduit to INPUT 1/2" liquid-tight flexible conduit connector (pre-measure and cut flexible conduit to desired length).

3 Apply PVC sealant to non-metallic rigid conduit and to the inside of non-metallic rigid conduit connector, insert non-metallic conduit into non-metallic rigid conduit connector.

4 Insert non-metallic rigid conduit into DL-AC-FLEX-HW-ODR-CONN. Secure DL-AC-FLEX-HW-ODR-CONN onto DL-AC-FLEX by tightening the 1/2" liquid-tight cord grip connector.

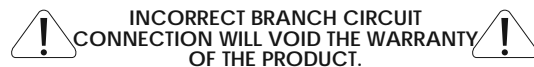
5 A-A

1. Connect hot supply wire (black) to surge suppressor's hot input wire (black).
2. Connect neutral supply wire to (white) surge suppressor's neutral input wire (white).
3. Connect supply ground wire (green or bare copper) to surge suppressor's ground input wire (green).
Secure all connections with wire nuts (not included).

5 B-B

1. Connect surge suppressor's output wires to DL-AC-FLEX's input wires BLACK to BLACK, WHITE to WHITE.

5 Apply PVC sealant inside of OUTPUT 1/2" non-metallic rigid conduit connector and on to non-metallic rigid conduit. Insert non-metallic rigid conduit into 1/2" non-metallic rigid conduit connector. Carefully tuck all connected wires inside DL-AC-FLEX-HW-ODR. Secure lid to DL-AC-FLEX-HW-ODR with 4 mounting screws making sure to not pinch any wires or wire nuts.



INCORRECT BRANCH CIRCUIT CONNECTION WILL VOID THE WARRANTY OF THE PRODUCT.

NOTE: ALL CONNECTIONS MUST BE PROPERLY SEURED AND SEALED FOR OUTDOOR INSTALLATIONS.

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OUTDOOR HARDWARE INSTALLATION INSTRUCTIONS

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION / ACTION
Product is not lighting up	<ol style="list-style-type: none"> 1. Product may have been connected directly to 120VAC without surge suppressor. 2. Breaker may have been tripped. 3. Surge suppressor may be faulty. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Check and switch on breaker. 3. Check output voltage from surge suppressor. (Black is Neutral, White is Hot) Output voltage should be 167V DC. If output voltage is lower, contact your local distributor for replacement. 4. Disconnect. Product warranty may have been voided, contact your local distributor.
Some LEDs are not functional	<ol style="list-style-type: none"> 1. Product may have been bent excessively or bent on horizontal plane, potentially breaking connections. 2. Product may have been connected directly to 120VAC without the surge suppressor. 3. The polarity may have been reversed on the surge suppressor's output connection to the product. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Disconnect. Product warranty may have been voided, contact your local distributor. 3. Disconnect. Product warranty may have been voided, contact your local distributor.
LEDs are flickering	<ol style="list-style-type: none"> 1. Product may have been bent excessively or bent on horizontal plane, potentially breaking connections 2. Product may have been connected directly to 120VAC without the surge suppressor. 3. The surge suppressor may not be connected to 120VAC circuit. 4. Surge suppressor may be faulty. 5. The polarity may have been reversed on the surge suppressor's output connection to the product. 6. Product may be connected to an incompatible dimmer or home control. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Disconnect. Product warranty may have been voided, contact your local distributor. 3. Disconnect. Product warranty may have been voided, contact your local distributor. 4. Check output voltage from surge suppressor. (Black is Neutral, White is Hot) Output voltage should be 167V DC. If output voltage is lower, contact your local distributor for replacement. 5. Disconnect. Product warranty may have been voided, contact your local distributor. 6. Connect surge suppressor to 120VAC and/or connect to recommended dimmers.
LEDs have uneven color	<ol style="list-style-type: none"> 1. Product may have been painted over or covered with foreign substance. 2. Product's operating temperature may have been exceeded. 3. Product may have prolonged exposure to direct sunlight 	<ol style="list-style-type: none"> 1. Clean product with non-corrosive cleaners. 2. Disconnect. Product warranty may have been voided, contact your local distributor. 3. Disconnect. Product warranty may have been voided, contact your local distributor.
Some LEDs and integral circuit chips appear oxidized with brown or green marks	<ol style="list-style-type: none"> 1. Product may have been submerged in puddle of water or snow for a period of time. 2. Product may have been altered in field. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Disconnect. Product warranty may have been voided, contact your local distributor.
Some LEDs and integral circuit chips appear charred	<ol style="list-style-type: none"> 1. Product may have been connected directly to 120VAC without the surge suppressor. 2. The surge suppressor may not be connected to 120VAC circuit. 3. The output polarity may have been reversed during installation. 4. Product's operating temperature may have been exceeded. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Disconnect. Product warranty may have been voided, contact your local distributor. 3. Disconnect. Product warranty may have been voided, contact your local distributor. 4. Disconnect. Product warranty may have been voided, contact your local distributor.
The outer jacket appears charred	<ol style="list-style-type: none"> 1. Product may have been energized when tightly coiled or when it was wound up in a spool. 2. Product may have been energized when overlapped on itself or covered by other means. 	<ol style="list-style-type: none"> 1. Disconnect. Product warranty may have been voided, contact your local distributor. 2. Disconnect. Product warranty may have been voided, contact your local distributor.
Plastic mounting channel bowed	<ol style="list-style-type: none"> 1. Mounting channel may not have enough mounting screws installed. 	<ol style="list-style-type: none"> 1. Install mounting screws on mounting channel every 6 inches.
LED strip fallen off CH-FX-41 metal channel	<ol style="list-style-type: none"> 1. Product may not be mounted with the correct mounting accessory. 	<ol style="list-style-type: none"> 1. Install mounting clips inside of metal channel every 6 inches.
LED strip is too long or too short for installation	<ol style="list-style-type: none"> 1. Incorrect measurements may be given to factory for production. 	<ol style="list-style-type: none"> 1. Contact your local distributor. Do not attempt to splice or field shorten the product. Doing so will void product warranty and UL safety.



DL-AC-FLEX-ODR

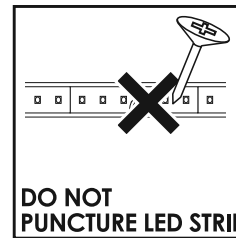
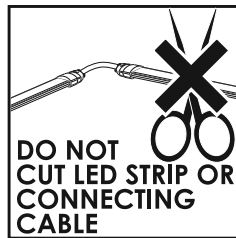
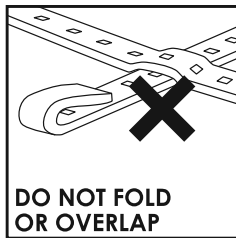
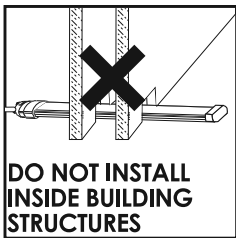
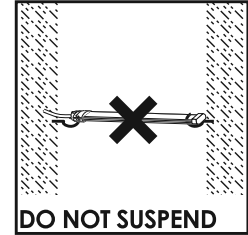
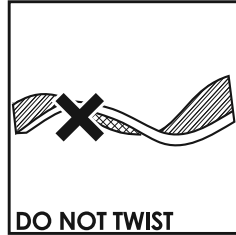
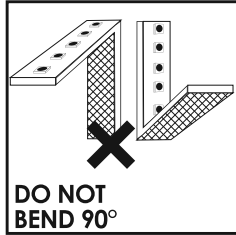
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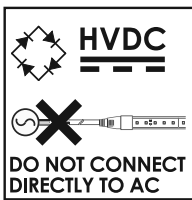
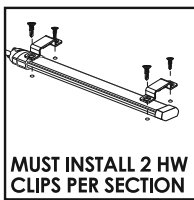
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OUTDOOR HARDWARE INSTALLATION INSTRUCTIONS

CAUTION



HARDWARE CONNECTION WIRING

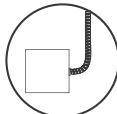
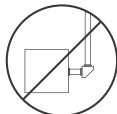


INFINA®

INCORRECT BRANCH CIRCUIT CONNECTION WILL VOID THE WARRANTY OF THE PRODUCT

ON-BOARD COMPONENTS ARE SCEPTIBLE TO DAMAGE FROM INCORRECT WIRING

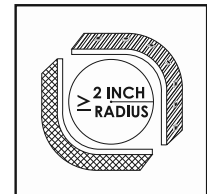
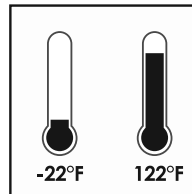
OUTDOOR



FLEXIBLE CONDUIT ONLY

MAKE SURE ALL CONNECTIONS ARE SEALED AND WATER TIGHT

- DO NOT SUBMERGE IN LIQUID OR IN AREAS WHERE WATER WILL PUDDLE
- DO NOT INSTALL NEAR AREAS WITH EXPOSURE TO SALT WATER OR CHLORINATED WATER



NOTE: Avoid installing at locations with prolonged exposure to direct sunlight to prevent extended heat buildup and to prevent irreversible damages on the LED.

WARRANTY IS VOID IF ANY OF THE ABOVE ARE VIOLATED

A 5 YEAR LIMITED WARRANTY for applications that necessitate up to 16 consecutive operational hours per 24 hour period.
A 2 YEAR LIMITED WARRANTY for applications that necessitate more than 16 consecutive operational hours per 24 hour period.

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