



DL-AC-FLEX (INDOOR APPLICATIONS)

INFINA® LED FLEXIBLE LINEAR
AC FLEXIBLE LINEAR STRIP

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

Type	
Project	
Catalog No.	

INDOOR HARDWIRE 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



NOT FOR OUTDOOR INSTALLATIONS

IF YOU HAVE RECEIVED THESE PARTS FOR AN OUTDOOR INSTALLATION, PLEASE CONTACT YOUR LOCAL REPRESENTATIVE.

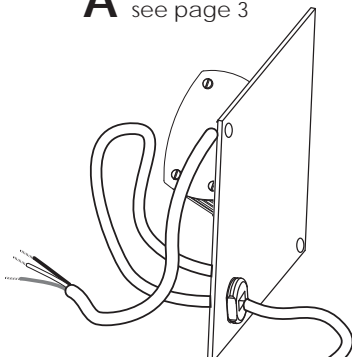
All electrical connections must be in accordance with local codes, ordinances and the National Electric Code. This product operates on **120 VAC**; always confirm the maximum wattage of the linear strip does not exceed the maximum wattage of the circuit it is connected to. If you are unfamiliar with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

INDOOR DIRECT WIRE INSTALLATION OPTIONS

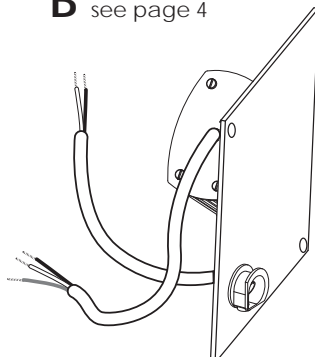
RATED 120VOLT AC | 4.95Watt / Foot

A see page 3



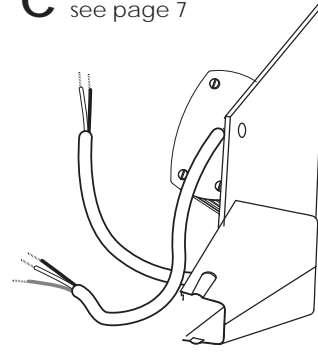
DL-AC-FLEX-HW
Integral heatsink coverplate with SURGE SUPPRESSOR

B see page 4



DL-AC-FLEX-HW-CNDT
Integral heatsink coverplate with SURGE SUPPRESSOR and output to connection for 1/2"Ø flexible aluminum conduit

C see page 7



DL-AC-FLEX-HW-RADJ
Integral heatsink coverplate with SURGE SUPPRESSOR and 90° connection for 3/4" rigid raceway

***DO NOT REMOVE SURGE SUPPRESSOR FROM INTEGRAL HEATSINK COVER PLATE**

Removing the SURGE SUPPRESSOR from integral heatsink cover plate will result in violation of UL requirements, voiding the product warranty and

RISK OF ELECTRICAL SHOCK AND DAMAGING THE PRODUCT



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Installation sheet subject to change without prior notice.



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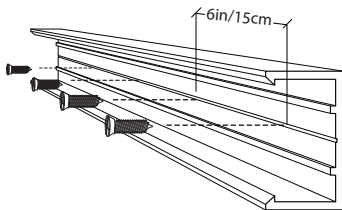
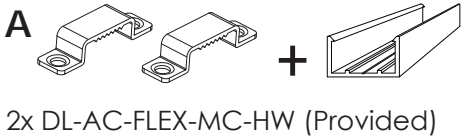
MOUNTING OPTIONS

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

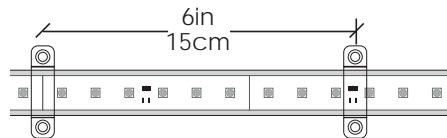
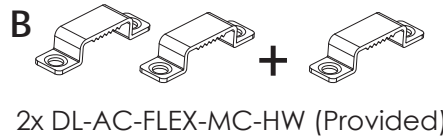


Per UL safety requirements, DL-AC-FLEX-MC-HW mounting clips must be used in mounting at the beginning and the end of each section of DL-AC-FLEX in a run.

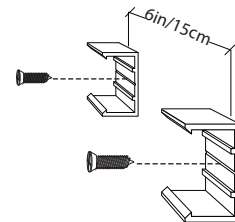
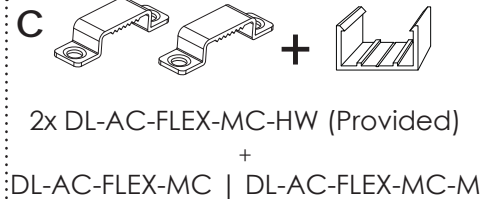
INCLUDED
DL-AC-FLEX-MC-HW
Required 2 per section



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.

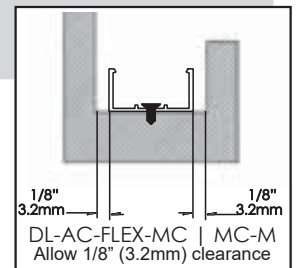
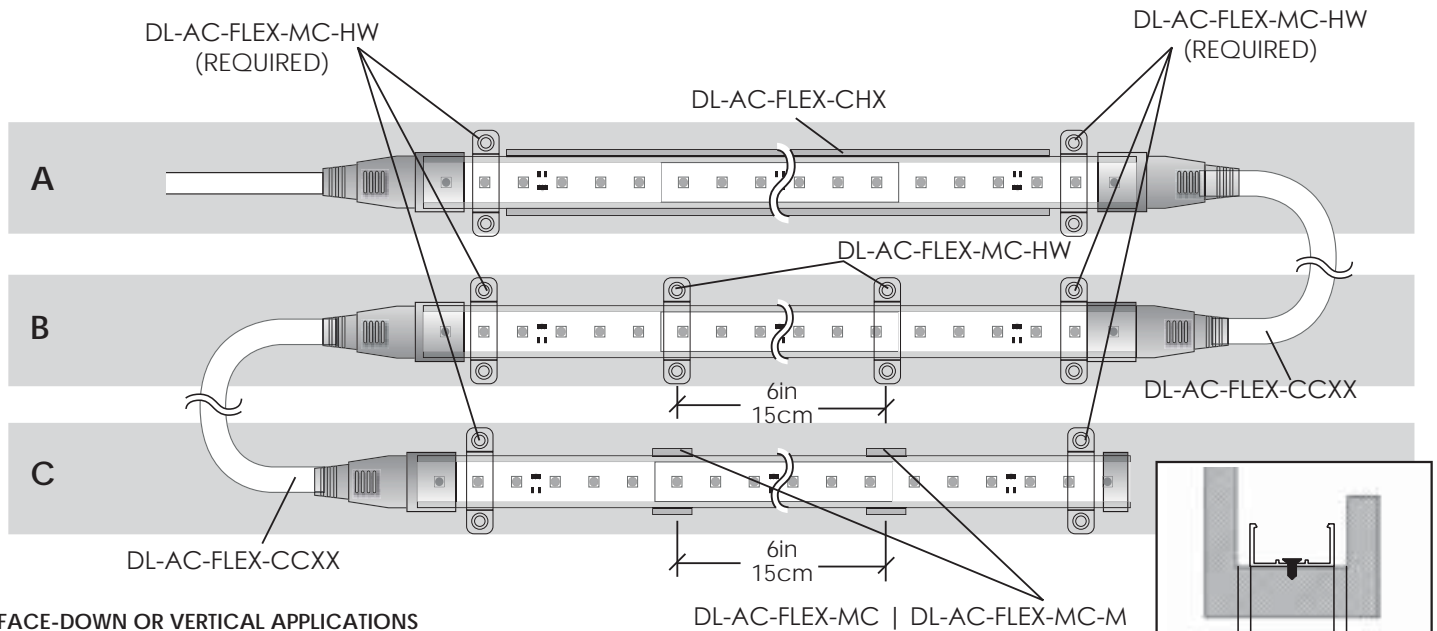


Secure hardwire clips on DL-AC-FLEX with self-tapping screws. To prevent sagging on face-down application, we recommend to install hardwire clips 6" (15cm) apart. **NOTE:** 2 hardwire clips (provided) must be used to secure the beginning and the end of each section of DL-AC-FLEX.



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.



DL-AC-FLEX (INDOOR APPLICATIONS)

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AC FLEXIBLE LINEAR STRIP

PATENT NO.:9,671,075
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AC Flexible Linear Strip

Type	
Project	
Catalog No.	

A

INSTALLING DL-AC-FLEX-HW



TURN OFF ELECTRICITY

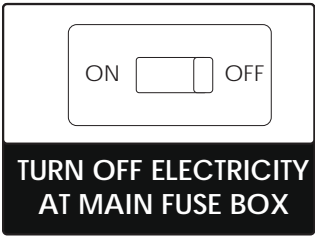
at main fuse box (or circuit breaker box) before beginning installation by switching circuit breaker off or removing fuse.

MIN 90° C SUPPLY CONDUCTORS.



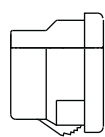
CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT

RATED 120VOLT AC | 4.95Watt / Foot



SURGE SUPPRESSOR OUTPUT CABLE

HARDWARE (INCLUDED)

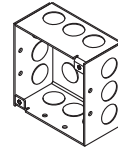


Single Use Parts

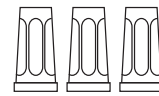
Permanently locks on SJT cord. Make sure to double check length before locking bushing on cord. Any attempt to remove the bushing will destroy the part.

SJT CORD STRAIN RELIEF BUSHING

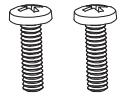
HARDWARE FOR INSTALLATION (NOT INCLUDED)



4 IN. DEEP BOX (MIN. 2" DEPTH)

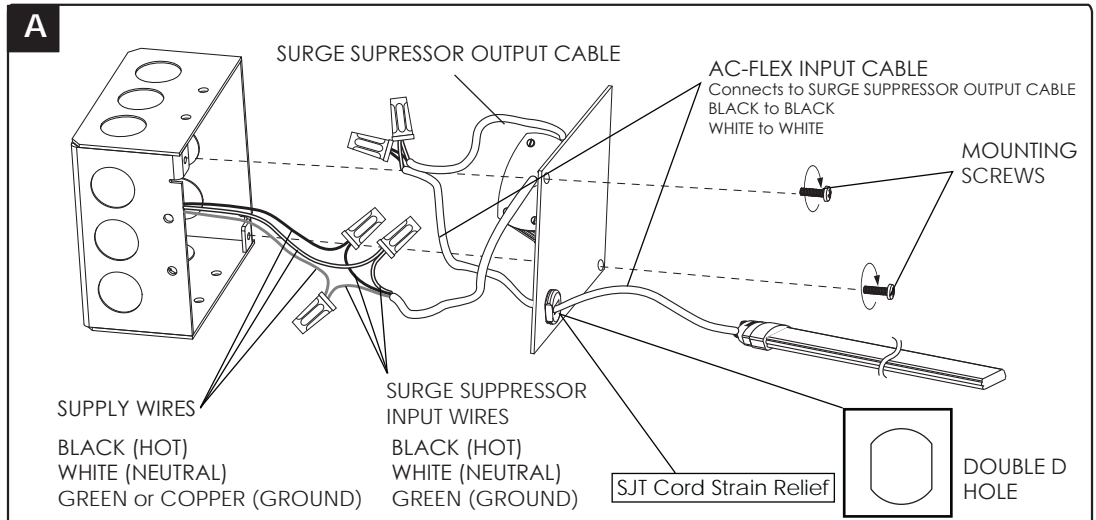
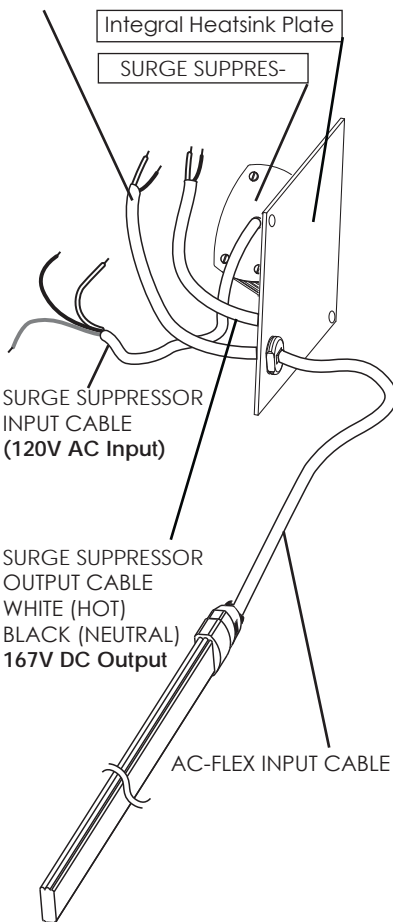


WIRE NUTS



8-32 MOUNTING SCREWS

AC-FLEX INPUT CABLE



CONNECT SURGE SUPPRESSOR INPUT WIRES WITH SUPPLY WIRES

1. **Connect Supply Wires** to SURGE SUPPRESSOR input wires: **BLACK TO BLACK AND WHITE TO WHITE**, and green or copper to green.
2. Secure all connections with wire nuts (not included).
3. Determine length needed outside of integral heatsink plate, secure included SJT cord strain relief onto AC-FLEX input cable with a pair of pliers and push it into integral heatsink plate's DOUBLE D hole.

OPTIONAL: to shorten AC-FLEX input cable, measure and cut AC-FLEX input cable to desired length and reconnect AC FLEX input cable with SURGE SUPPRESSOR output cable: **BLACK TO BLACK AND WHITE TO WHITE** inside of heatsink coverplate, secure connection with wire nuts (not included).

5. Carefully tuck all connected wires inside the junction box. Secure integral heatsink cover plate to junction box with mounting screws (not included), making sure to not pinch any wires or wire nuts.



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



NOT FOR OUTDOOR INSTALLATION

*DO NOT REMOVE SURGE SUPPRESSOR FROM INTEGRAL HEATSINK COVERPLATE.

Doing so is in direct violation to UL requirements and will void the warranty of the product.

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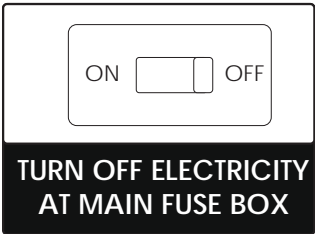
PATENT NO.:9,671,075
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B INSTALLING DL-AC-FLEX-HW-CNDT

⚡ 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.

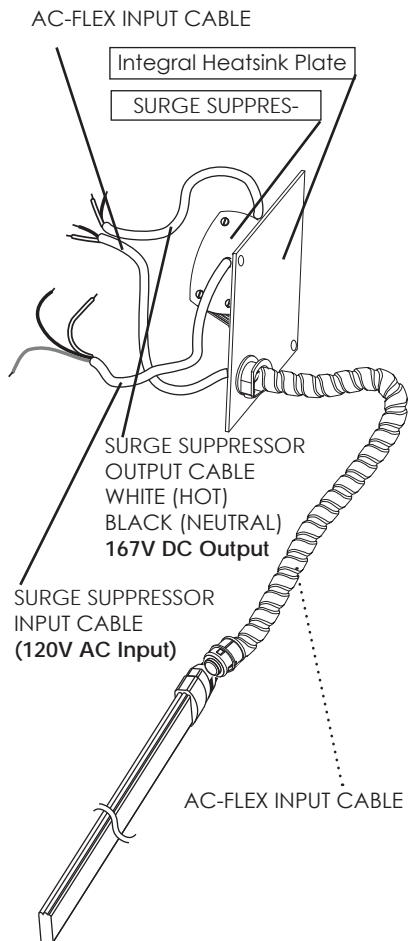
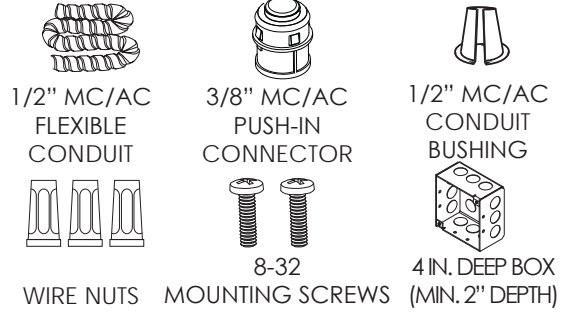
! CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT RATED 120VOLT AC | 4.95Watt / Foot



HARDWARE FOR INSTALLATION (INCLUDED)



HARDWARE FOR INSTALLATION (NOT INCLUDED)



B1 SURGE SUPPRESSOR OUTPUT CABLE
AC-FLEX INPUT CABLE

B2 3/8" MC/AC Flexible Conduit Push-in Connector
1/2" MC/AC Flexible Conduit

B3 1/2" MC/AC FLEXIBLE CONDUIT ASSEMBLY
1/2" MC/AC CONDUIT BUSHING
AC-FLEX INPUT CABLE

B4 3/8" MC/AC CONNECTOR

B5 SURGE SUPPRESSOR OUTPUT CABLE
AC-FLEX INPUT CABLE
SJT CORD STRAIN RELIEF

B1 Undo the wire nuts, disconnecting AC-FLEX input CABLE.
B2 Connect 3/8" MC/AC push-in connector to a 1/2" MC/AC flexible conduit (pre-measure and cut conduit to desired length).
B3 Feed AC-FLEX input cable through 1/2" MC/AC flexible conduit assembly, insert a 1/2" MC/AC conduit bushing into the end of 1/2" MC/AC flexible conduit assembly.
B4 Feed AC-FLEX input cable back through hole in heatsink plate. Connect 1/2" MC/AC flexible conduit to 3/8" MC/AC connector (already mounted on integral heatsink plate). Tighten set screw on 3/8" MC/AC connector on faceplate to secure the connection.
B5 Pull through AC-FLEX input cable so that no cable is exposed past the 3/8" MC/AC push-in connector. Secure provided SJT cord strain relief on AC-FLEX input cable with pliers or clamping tool. Reconnect AC-FLEX input cable with SURGE SUPPRESSOR output cable, **BLACK TO BLACK AND WHITE TO WHITE.**

! INCORRECT BRANCH CIRCUIT CONNECTION WILL VOID THE WARRANTY OF THE PRODUCT. *NOT FOR OUTDOOR INSTALLATION !

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

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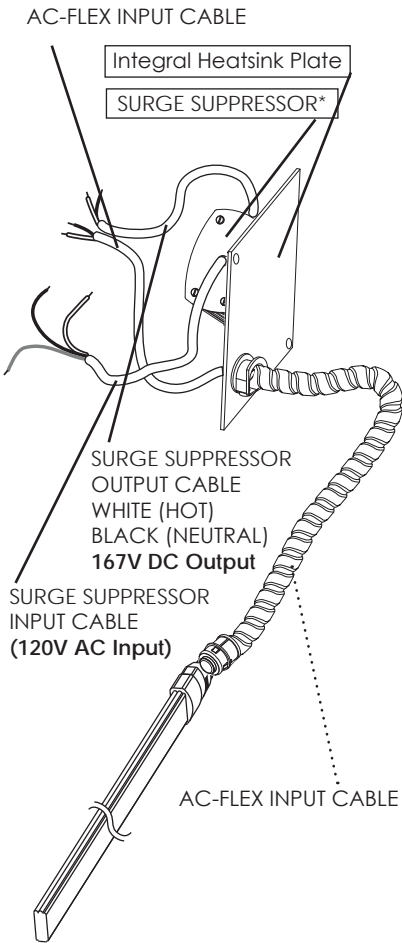
INFINA® LED FLEXIBLE LINEAR
AC FLEXIBLE LINEAR STRIP

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B

INSTALLING DL-AC-FLEX-HW-CNDT (Continued)



B6

SURGE SUPPRESSOR*

Integral Heatsink Plate

MOUNTING SCREWS

SUPPLY WIRES

INPUT WIRES

BLACK (HOT)
WHITE (NEUTRAL)
GREEN or COPPER (GROUND)

BLACK (HOT)
WHITE (NEUTRAL)
GREEN (GROUND)

CONNECT SURGE SUPPRESSOR INPUT WIRES WITH SUPPLY WIRES

1. Connect hot supply wire (**BLACK**) to hot input wire (**BLACK**).
2. Connect neutral supply wire to (**WHITE**) neutral input wire (**WHITE**).
3. Connect supply ground wire (green or bare copper) to ground input wire (green).
4. Secure all connections with wire nuts (not included).
5. Carefully tuck all connected wires inside the junction box. Secure integral heatsink cover plate to junction box with mounting screws (not included), making sure to not pinch any wires or wire nuts.



**INCORRECT BRANCH CIRCUIT CONNECTION
WILL VOID THE WARRANTY OF THE PRODUCT.
*NOT FOR OUTDOOR INSTALLATION**



***DO NOT REMOVE SURGE SUPPRESSOR FROM INTEGRAL HEATSINK COVERPLATE.**

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B

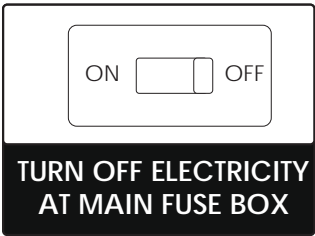
INSTALLING DL-AC-FLEX-HW-CNDT (EXTENDING CORD LENGTH WITH SPLICE BOX) for length requirements longer than 20 feet



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

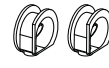


HARDWARE FOR INSTALLATION (INCLUDED)

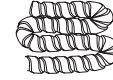


SJT CORD STRAIN RELIEF

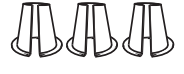
HARDWARE FOR INSTALLATION (NOT INCLUDED)



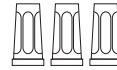
3/8" CONDUIT CONNECTOR



1/2" MC/AC FLEXIBLE CONDUIT



1/2" MC/AC CONDUIT BUSHING



WIRE NUTS

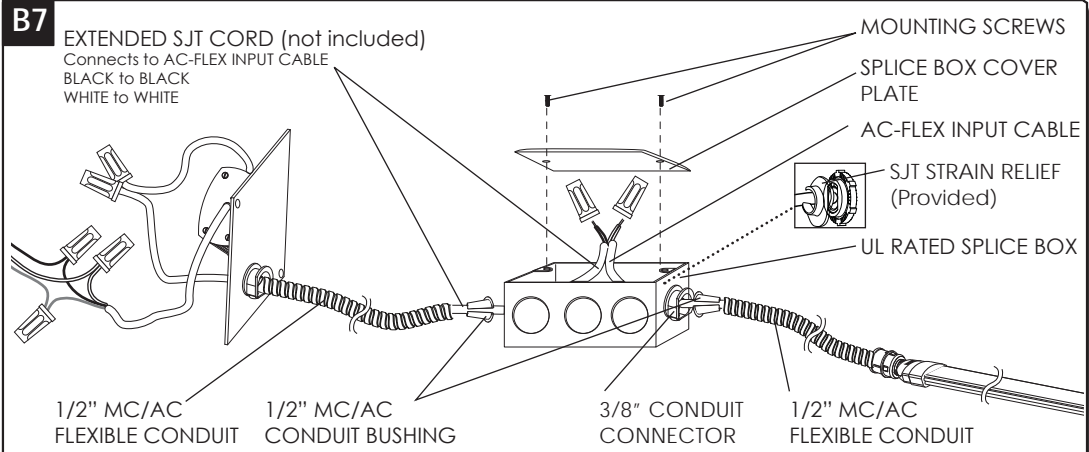
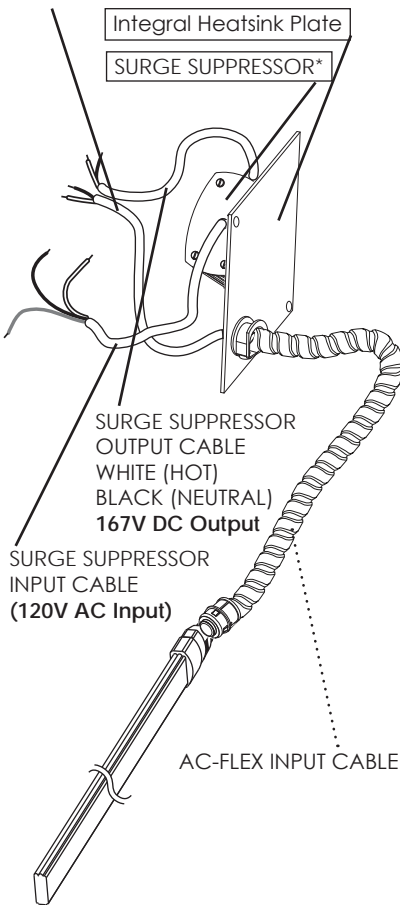


UL RATED SPLICE BOX WITH COVER



SJT CORD

AC-FLEX INPUT CABLE



PREPARE SPLICE BOX TO USE

1. Punch out two knock outs on a splice box and connect two 3/8" conduit connectors to the splice box, one for input connection and one for output connection.

CONNECT AC-FLEX INTO SPLICE BOX

2. Follow **STEPS B2** and **B3**, then connect 1/2" MC/AC flexible conduit assembly to one of the splice box's 3/8" conduit connectors, tighten set screw on 3/8" conduit connector to secure the connection.

3. Reference **STEP B5** to attach provided SJT strain relief on AC-FLEX input wire.

CONNECT EXTENDED SJT CORD INTO SPLICE BOX AND INTEGRAL HEATSINK PLATE

4. Feed SJT cord through 1/2" flexible conduit, insert 3/8" conduit bushing on both ends of 1/2" flexible conduit. Connect 1/2" flexible conduit assembly to 3/8" connectors on splice box and on integral heatsink plate, tighten set screws to secure all connections.

CONNECT EXTENDED SJT CORD TO AC-FLEX INPUT CABLE

5. Connect BLACK and WHITE wires from extended SJT cord and AC-FLEX input cable, secure all connections with wire nuts. Use mounting screws to secure cover plate to splice box.



INCORRECT BRANCH CIRCUIT CONNECTION WILL VOID THE WARRANTY OF THE PRODUCT. *NOT FOR OUTDOOR INSTALLATION



***DO NOT REMOVE SURGE SUPPRESSOR FROM INTEGRAL HEATSINK COVERPLATE.**

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C

INSTALLING DL-FLEX-HW-RADJ



TURN OFF ELECTRICITY

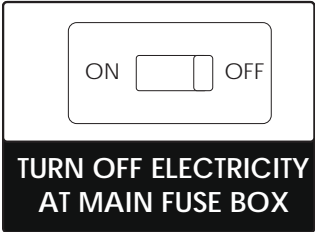
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MIN 90° C SUPPLY CONDUCTORS.

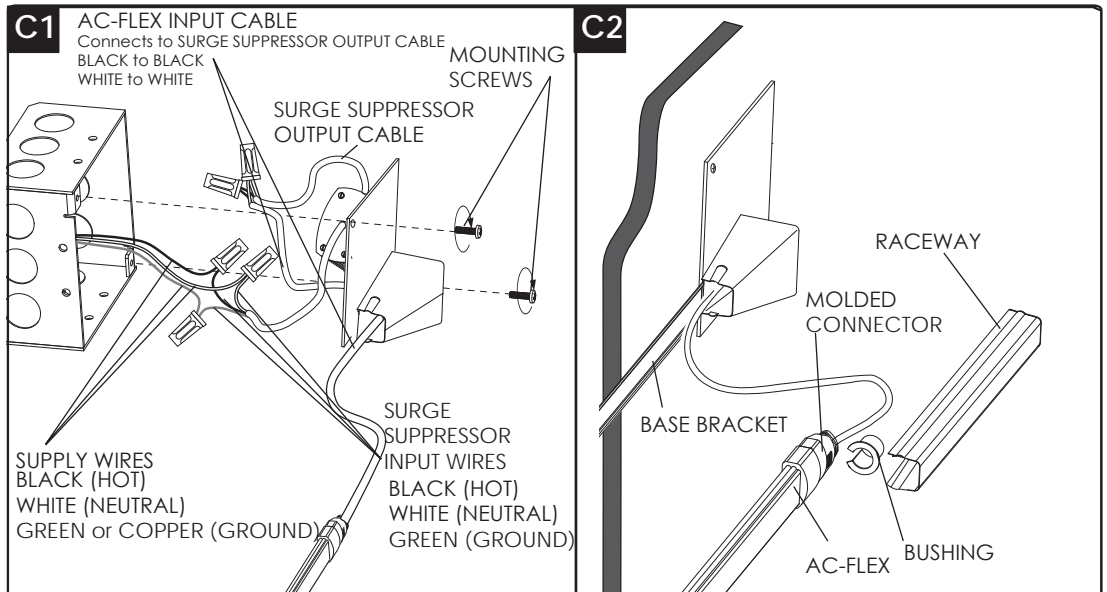
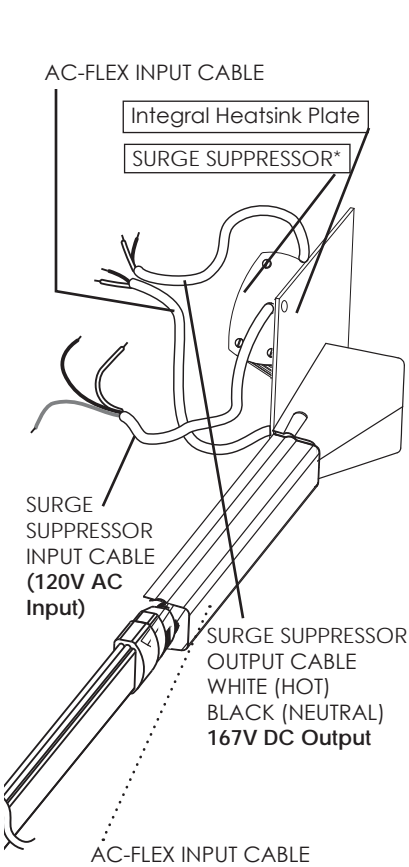


CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT

RATED 120VOLT AC | 4.95Watt / Foot



HARDWARE FOR INSTALLATION (NOT INCLUDED)



C1 CONNECT SURGE SUPPRESSOR INPUT WIRES WITH SUPPLY WIRES

1. Connect hot supply wire (BLACK) to hot input wire (BLACK).
2. Connect neutral supply wire (WHITE) to neutral input wire (WHITE).
3. Connect supply ground wire (green or bare copper) to ground wire input wire (green).
4. Secure all connections with wire nuts (not included)

C2 CONNECT RACEWAY ON TO AC-FLEX INPUT CORD

6. Measure and cut metal raceway to desired length.
7. Mount metal raceway's base bracket to wall per product's instructions. Place 1/2" bushing on the end of AC-FLEX molded connector, carefully snap on raceway to base bracket.
8. Pull through AC-FLEX input cable so that no cable is exposed past the end of raceway. Secure provided SJT cord strain relief on AC-FLEX input cable with plier or clamping tool.
9. Carefully tuck all connected wires inside the junction box. Secure integral heatsink cover plate to junction box with mounting screws (not included), making sure to not pinch any wires or wire nuts.



INCORRECT BRANCH CIRCUIT CONNECTION WILL VOID THE WARRANTY OF THE PRODUCT. *NOT FOR OUTDOOR INSTALLATION



*DO NOT REMOVE SURGE SUPPRESSOR FROM INTEGRAL HEATSINK COVERPLATE.

Doing so is in direct violation to UL requirements and will void the warranty of the product.