# Rubber 3D
LL-RUB-3D

**inter•lux**

# Installation Instructions

## Step 1 - *Open the Box*

**a**  Unpack Luminaire unit(s).  The Rubber 3D Luminaire is unique among our many offerings and requires special handling during installation.  39.5" (1m) lengths are supplied in Tubes; 197" (5m), 315" (8m), and 394" (10m) lengths are supplied on a Reel, packed in a large anti-static bag.  Remote drivers and housings are ordered separately.

Anti-Static Bag
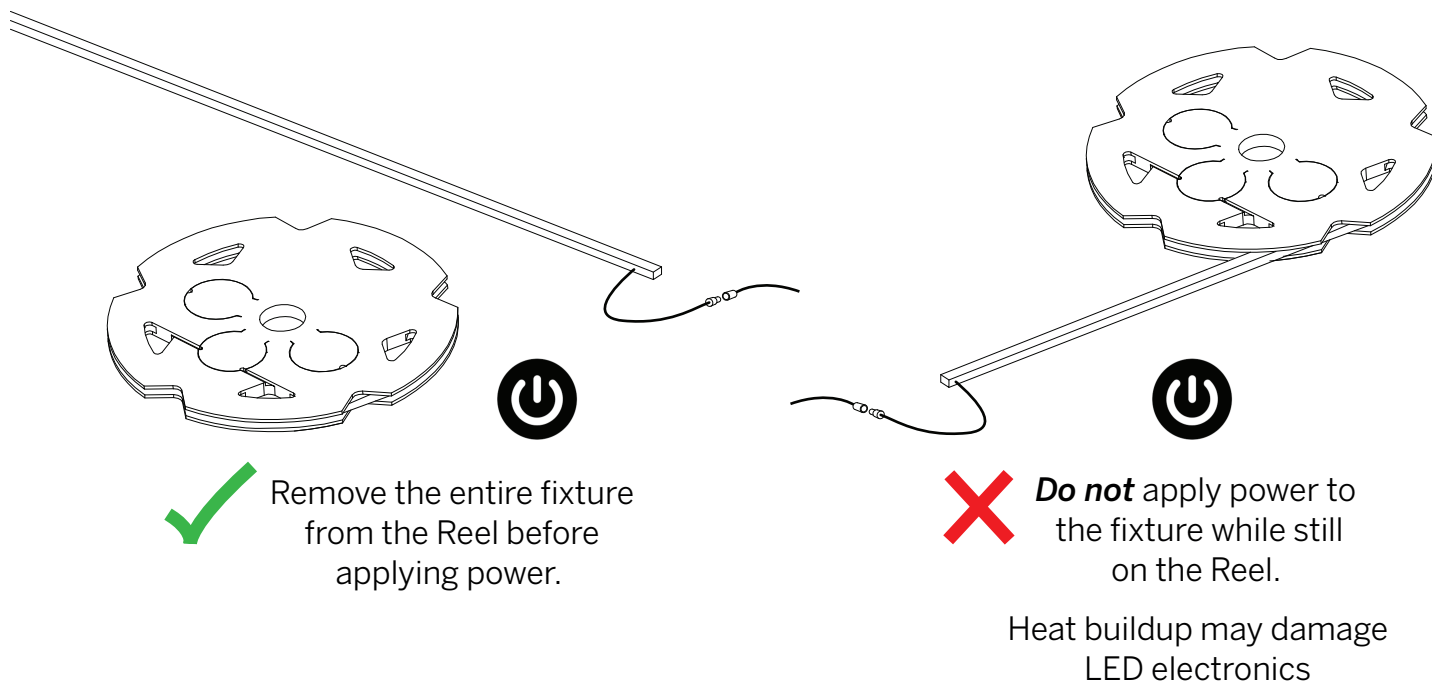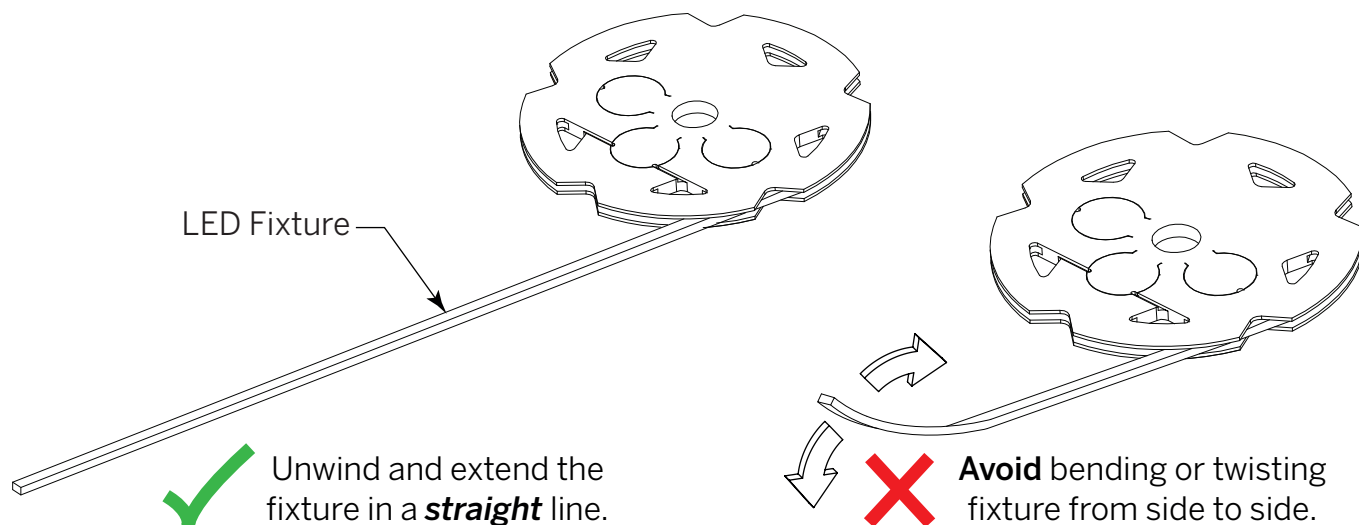
Reel

Perforated Compartments

9.8"
250mm

Power Cable with Male connector

Inside (3) perforated compartments on Reel:
- Cotton Gloves
- Cable Feed & End Caps
- Instructions

**b**  Read instructions **thoroughly** before beginning installation.

**c**  Put on supplied cotton knit glove.

Actual Luminaire Lengths:

39.5" = 1004mm
197" = 5004mm
315" = 8004mm
394" = 10004mm

9.8"
250mm

Power Cable with Female connector

Need Help?

**IMPORTANT:** As a flexible product, installation should not be attemped by one person working alone.

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# Rubber 3D
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# Installation Instructions

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## Step 2 - *Recommended Practices in Handling Fixture*

Open the Bag and lay Reel on work surface

LED Fixture

✓ Unwind and extend the fixture in a **straight** line.

✗ **Avoid** bending or twisting fixture from side to side.

✓ Remove the entire fixture from the Reel before applying power.

✗ **Do not** apply power to the fixture while still on the Reel.

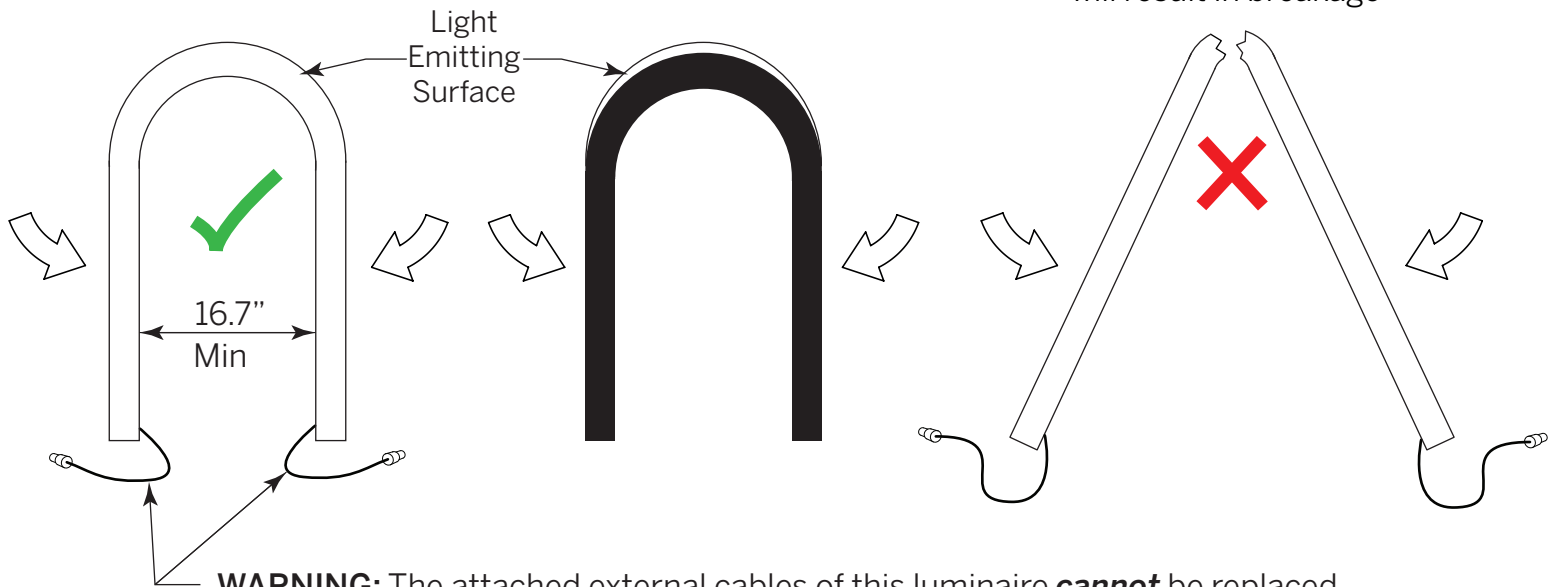Heat buildup may damage LED electronics

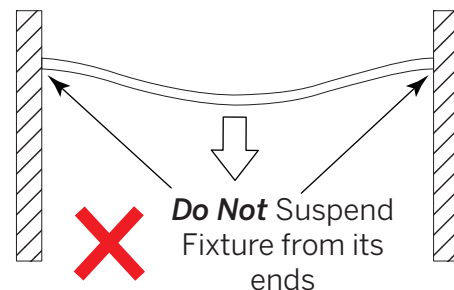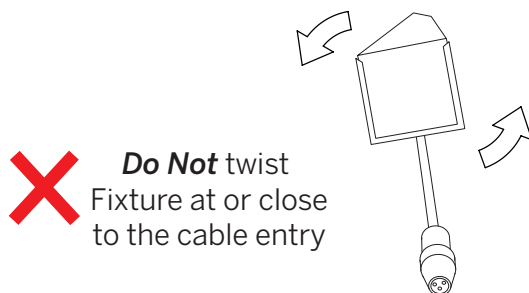Need Help?

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## Step 2 - *Recommended Practices in Handling Fixture* (continued)

Minimum Bending
Radius: 9.8" (250mm)

Bending fixture with a
tighter diameter
will result in breakage

Light
Emitting
Surface

16.7"
Min

**WARNING:** The attached external cables of this luminaire ***cannot*** be replaced. If the cord is damaged, the entire luminaire must be replaced. Similarly, the internal LED strip is not replaceable. At the end of the product's life, the whole luminaire must be replaced.
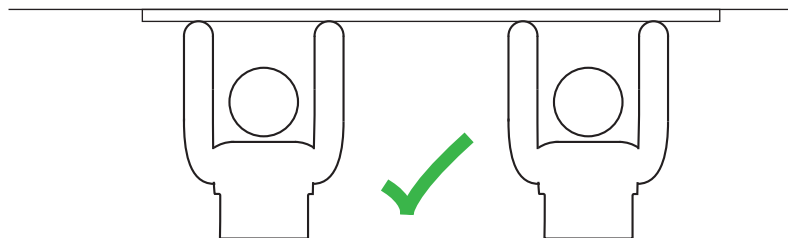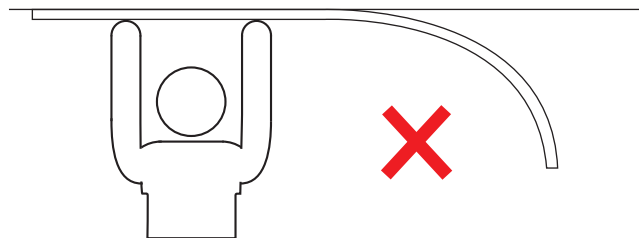
***Do Not*** twist
Fixture at or close
to the cable entry

***Do Not*** Suspend
Fixture from its
ends

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# Installation Instructions

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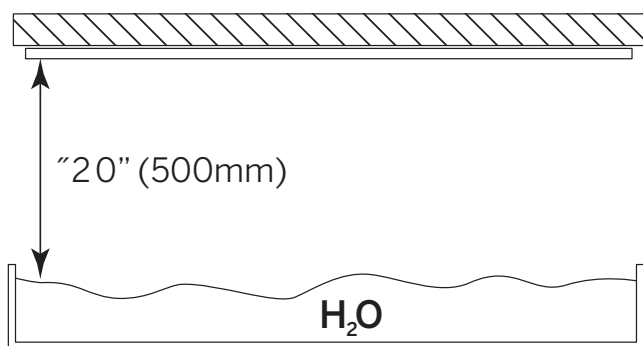## Step 2 - *Recommended Practices in Handling Fixture* (continued)



(2) people required to install



***Do Not*** install by yourself



″20" (500mm)

$H_2O$

When installing fixture near water, allow for a minimum of 20" (500mm) above water level. Fixtures are not rated for continuous submersion.

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## Step 3 - *How to Measure & Cut Fixture*

**WARNING!** Read cutting instructions carefully *before* cutting fixture. If directions are not followed, an unlit section may result!

Top of Fixture

2.46" (62.5mm)     2.46" (62.5mm)

Encased LED Tape — Individual LED

0.4"
10mm

Copper
Soldering Pad

Bottom of Fixture

Cutting Marks
(typ.)

✔ Cut 90°
across fixture

✗ *Do Not* cut
diagonally
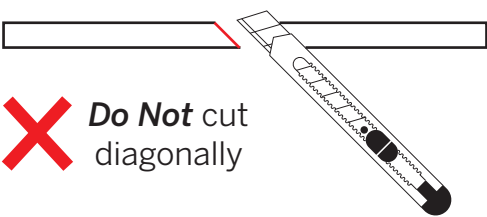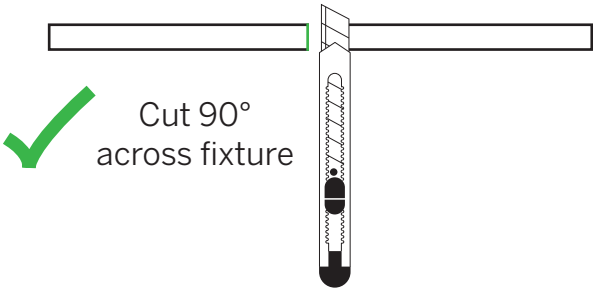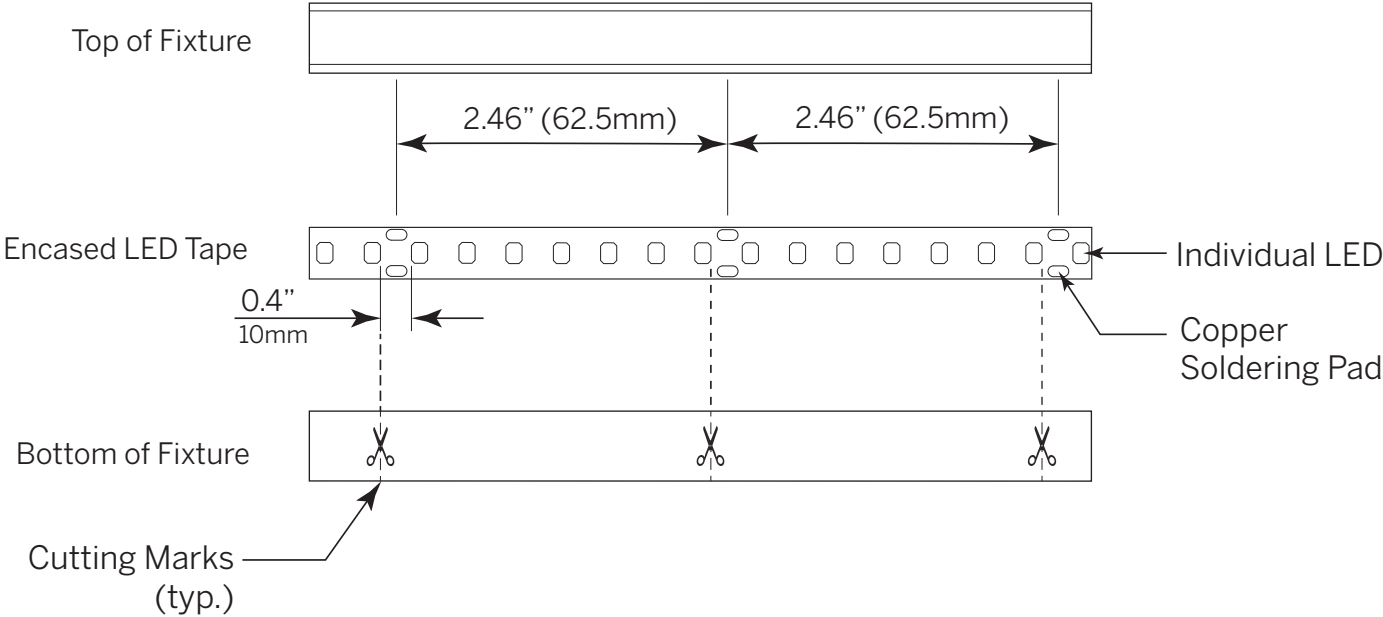
## Cutting
Cut *exactly* on these marks to ensure a fully lit section. If not, unpowered LEDs may result.

Unpowered LEDs ——— ——— Location of Cut

Need
Help?
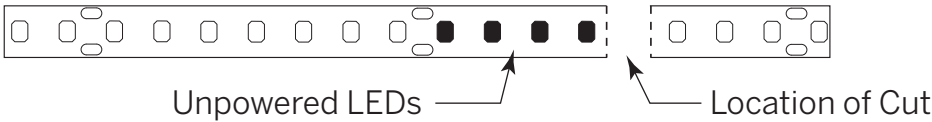
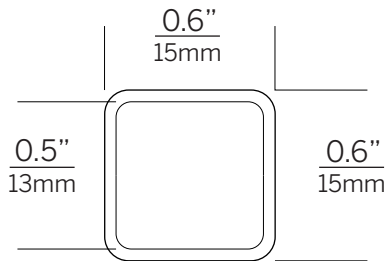**NOTE:** Illustration not representative
of actual LED count.

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## Step 4 - *Terminating a Cut Luminaire*

Ends of cut fixtures must be terminated with an End Cap, ordered as part of the 9539 End Cap Kit.

0.6"
15mm

0.5"
13mm

0.6"
15mm

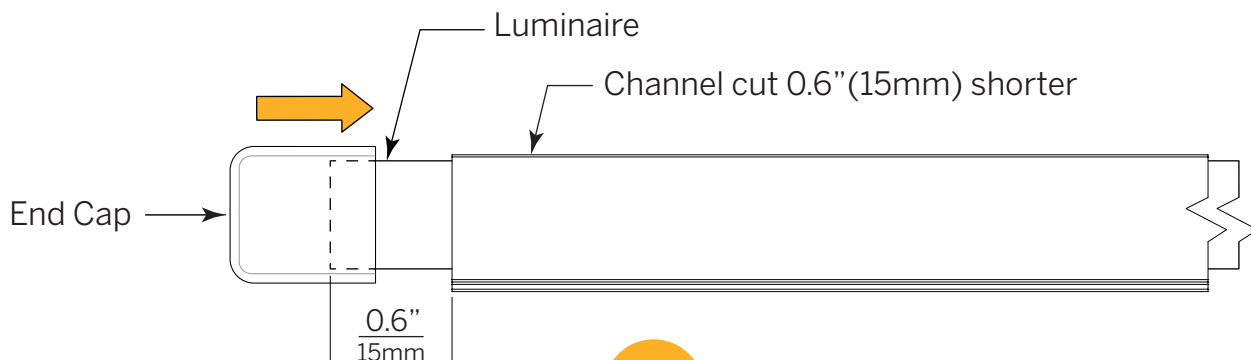99539 End Cap Kit includes (2) Caps and (1) Tube of Silicone.

**a** Apply silicone at end of End Cap before sealing cut Fixture. Avoid squeeze-out as too much silicone can cover the LED tape's diodes.

**b** Mount End Cap

**a**

0.6"
15mm

**b**

0.6"
15mm

**NOTE:** If using a Channel to house the fixture, Channel needs to be cut 0.6" (15mm) shorter, as the End Cap does not fit within its confines. See illustration below.
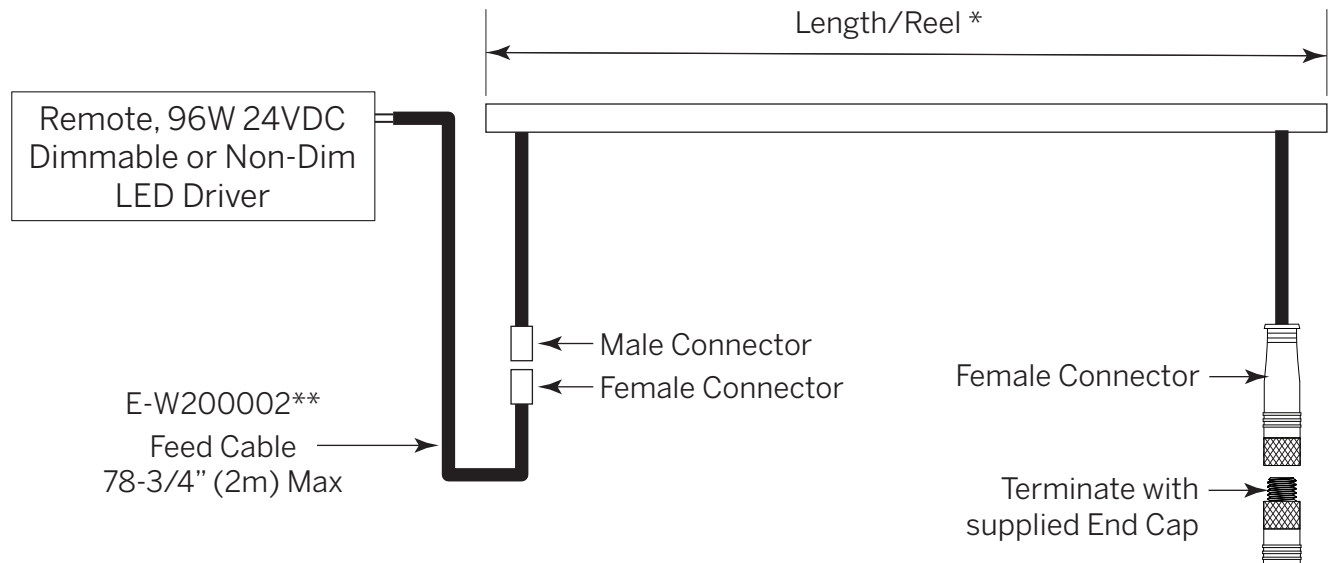
Luminaire

Channel cut 0.6"(15mm) shorter

End Cap

0.6"
15mm

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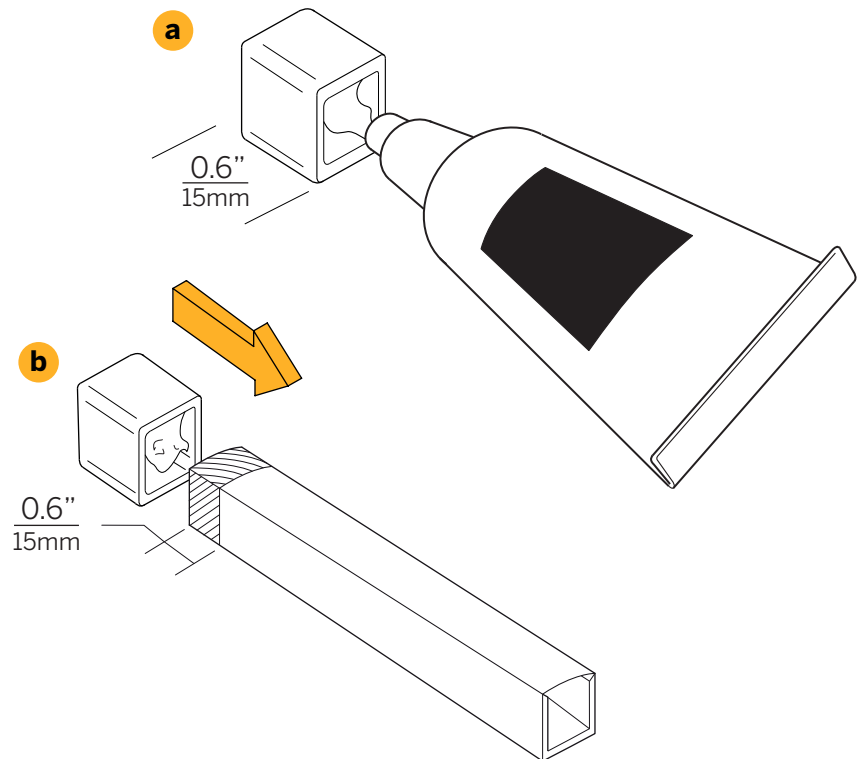
# Installation Instructions

## Step 4 - *Wiring - Static White*

24VDC Constant Voltage, 1.5W/ft
24VDC Constant Voltage, 2.9W/ft

*Stand Alone Unit*

Length/Reel *

Remote, 96W 24VDC
Dimmable or Non-Dim
LED Driver

Male Connector
Female Connector

Female Connector

E-W200002**

Feed Cable
78-3/4" (2m) Max

Terminate with
supplied End Cap

**\*Lengths:**
**3'3" Reel** (39.5"/1m) @1.5W/ft = 5W; @2.9W/ft = 9.6W
**16'5"Reel** (197"/5m) @1.5W/ft =25W; @2.9W/ft = 48W
**26'3" Reel** (315"/8m) @2.9W/ft only = 76.8W
**32'10" Reel** (394"/10m) @1.5W/ft only = 50W

---

*Multi Unit Run - Single Run, Single Driver*

Length/Reel A          Length/Reel B          Length/Reel X

M
F

E-W200002**
Feed Cable
78-3/4" (2m) Max

F M          F M

Female Connector

Remote, 96W 24VDC
Dimmable or Non-Dim
LED Driver
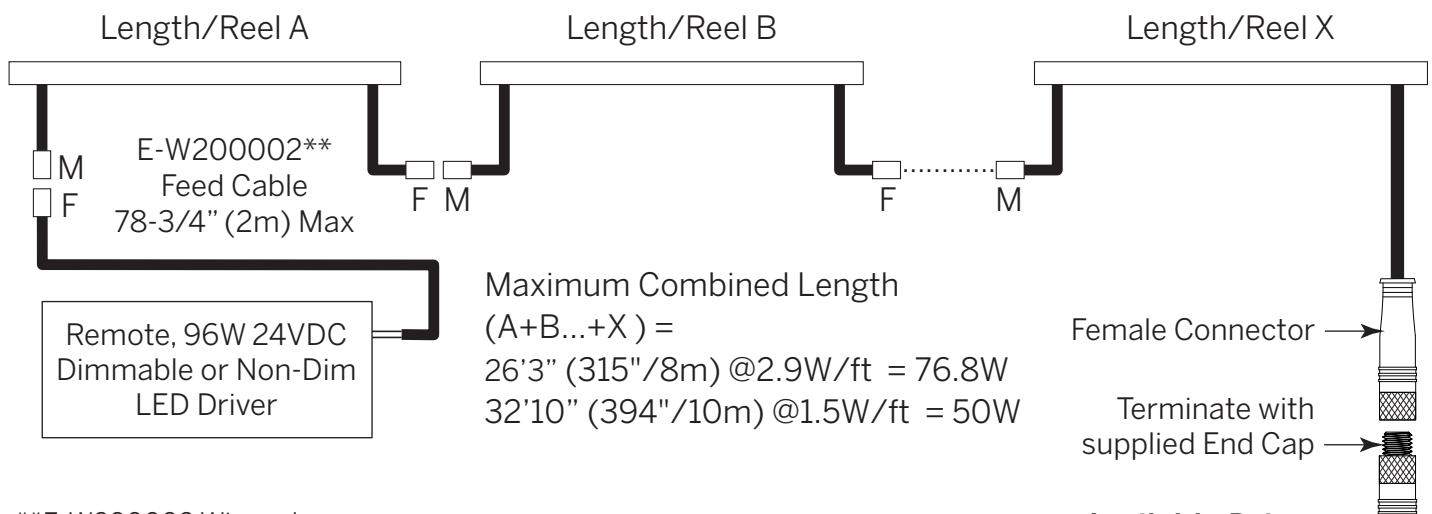
Maximum Combined Length
(A+B...+X ) =
26'3" (315"/8m) @2.9W/ft = 76.8W
32'10" (394"/10m) @1.5W/ft = 50W

Terminate with
supplied End Cap

**\*\*E-W200002 Wire colors:**
Clear wire (-)
White wire (+)

Need
Help?

**Available Drivers**
• OT96-D010
• DI96-24V-JBX-DPH-D010
• LUT96-L3D0

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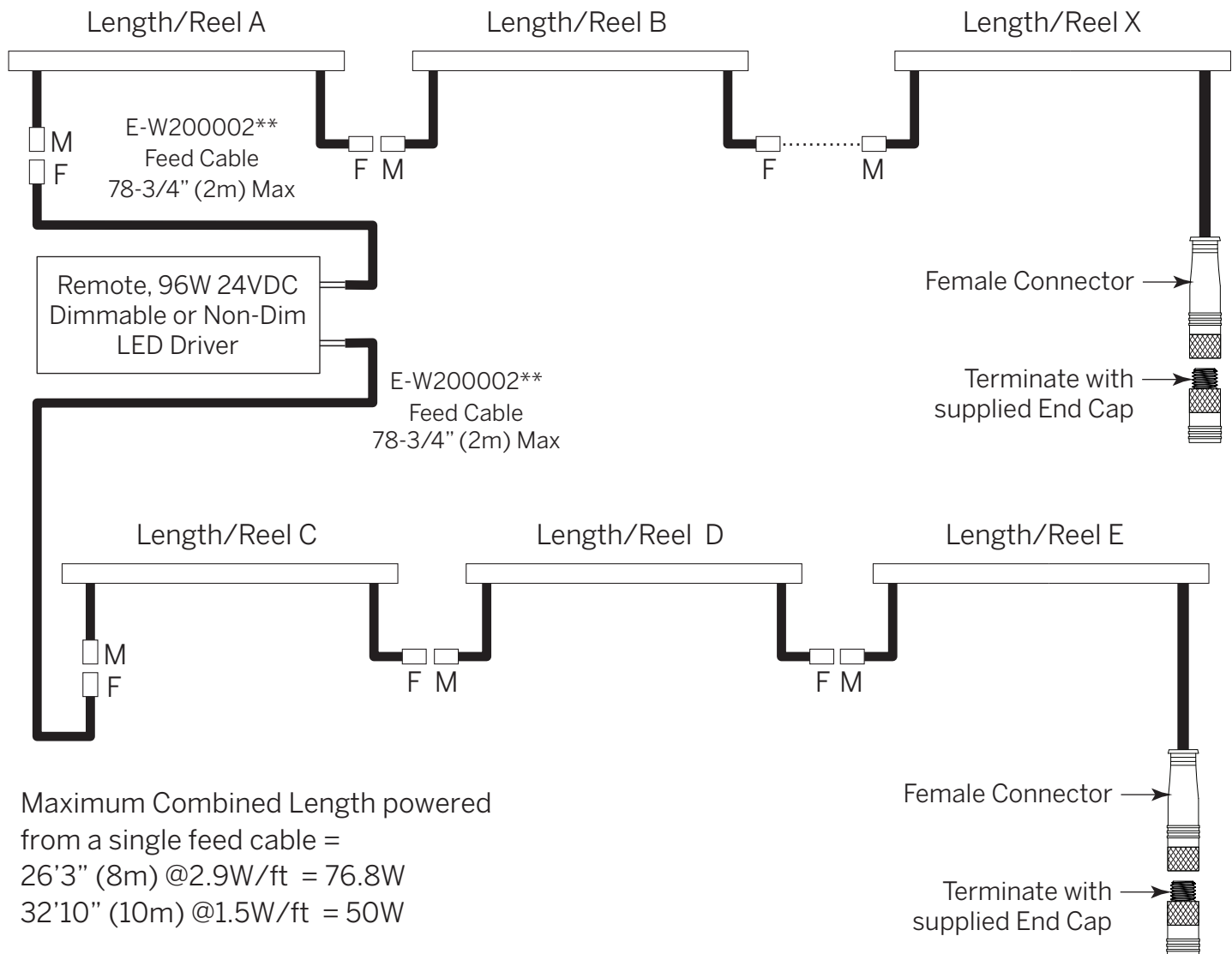
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# Rubber 3D
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## Installation Instructions

### Step 4 - *Static White* (continued)
*Multi Unit Run -  Dual Run, Single Driver*

24VDC Constant Voltage, 1.5W/ft
24VDC Constant Voltage, 2.9W/ft

Length/Reel A

Length/Reel B

Length/Reel X

M
F
E-W200002**
Feed Cable
78-3/4" (2m) Max

F M

F M

Female Connector

Remote, 96W 24VDC
Dimmable or Non-Dim
LED Driver

Terminate with
supplied End Cap

E-W200002**
Feed Cable
78-3/4" (2m) Max

Length/Reel C

Length/Reel  D

Length/Reel E

M
F

F M

F M

Female Connector

Terminate with
supplied End Cap

Maximum Combined Length powered
from a single feed cable =
26'3" (8m) @2.9W/ft  = 76.8W
32'10" (10m) @1.5W/ft = 50W

Maximum Combined Length (A+B+C+D
+E...+X) using two or more feed cables  =
26'3" (8m) @2.9W/ft  = 76.8W
49'2" (15m) @1.5W/ft = 75W

**E-W200002 Wire colors:
Clear wire (-)
White wire (+)

### Available Drivers
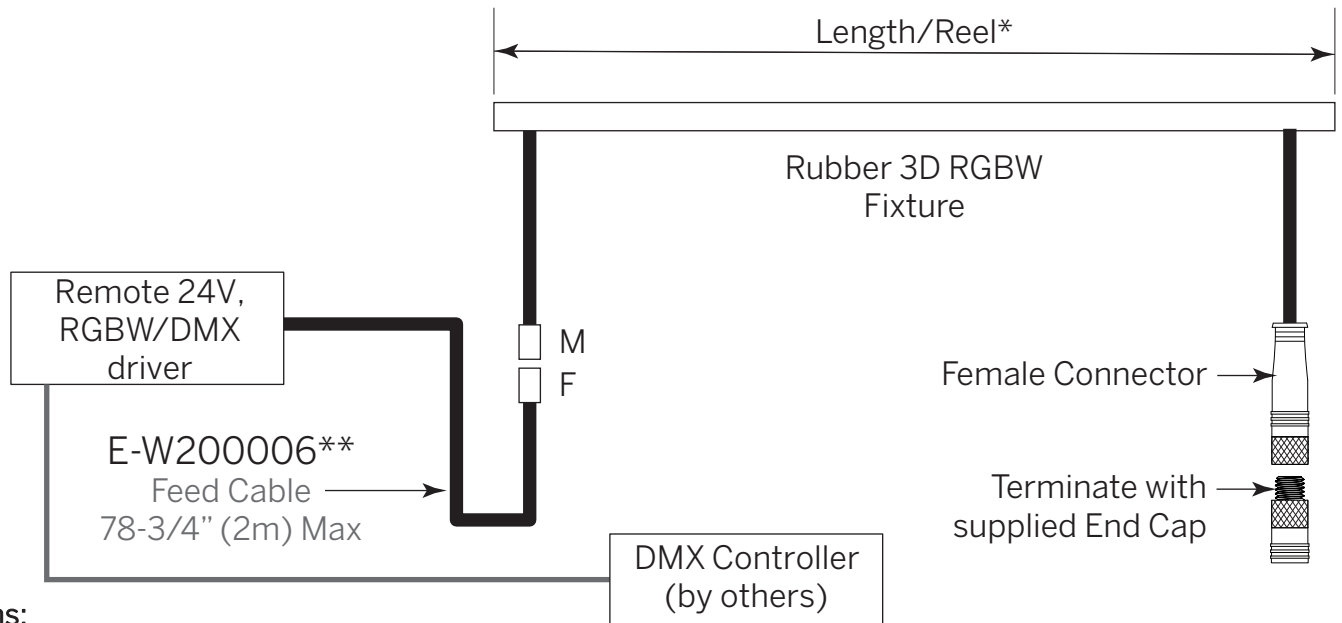- OT96-D010
- DI96-24V-JBX-DPH-D010
- LUT96-L3D0

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# Rubber 3D
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## Installation Instructions

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## Step 4 - *Wiring - RGBW*

24VDC Constant Voltage, 4.6W/ft

*Stand Alone Unit*

Length/Reel*

Rubber 3D RGBW
Fixture

Remote 24V,
RGBW/DMX
driver

M
F

Female Connector

E-W200006**
Feed Cable
78-3/4" (2m) Max

Terminate with
supplied End Cap

DMX Controller
(by others)

**\*Lengths:**
**3'3" Reel** (39.5"/1m) @4.6W/ft = 15W
**16'5"Reel** (197"/5m) @4.6/ft = 75W

---

*Multi Unit Run*

Length/Reel A

Length/Reel B

Length/Reel X

M
F

E-W200006**
Feed Cable
78-3/4" (2m) Max

F  M

F  M

Remote 24V,
RGBW/DMX
driver

Maximum Combined Length
(A+B...+X ) =
16'5" (197"/5m) 75W

Female Connector

DMX Controller
(by others)

Terminate with
supplied End Cap
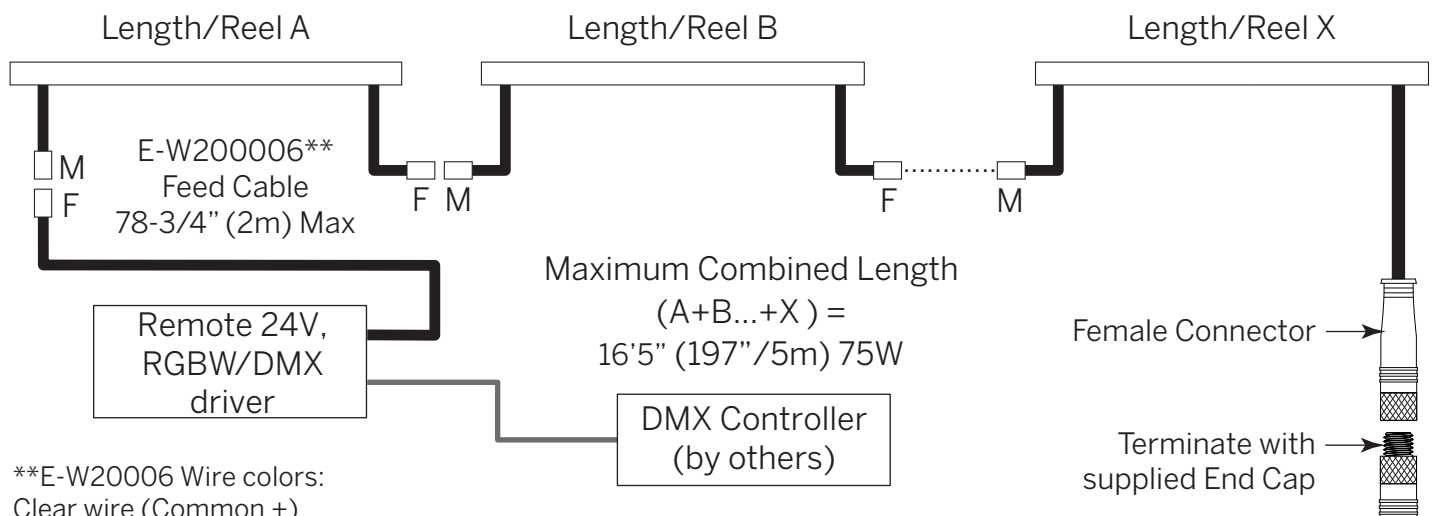
**\*\*E-W20006 Wire colors:**
Clear wire (Common +)
Red wire (Red -)
Green wire (Green -)
Blue wire (Blue -)
White wire (White -)

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**Available Driver**
•EL96-DMX

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# Accessory Selection Guide

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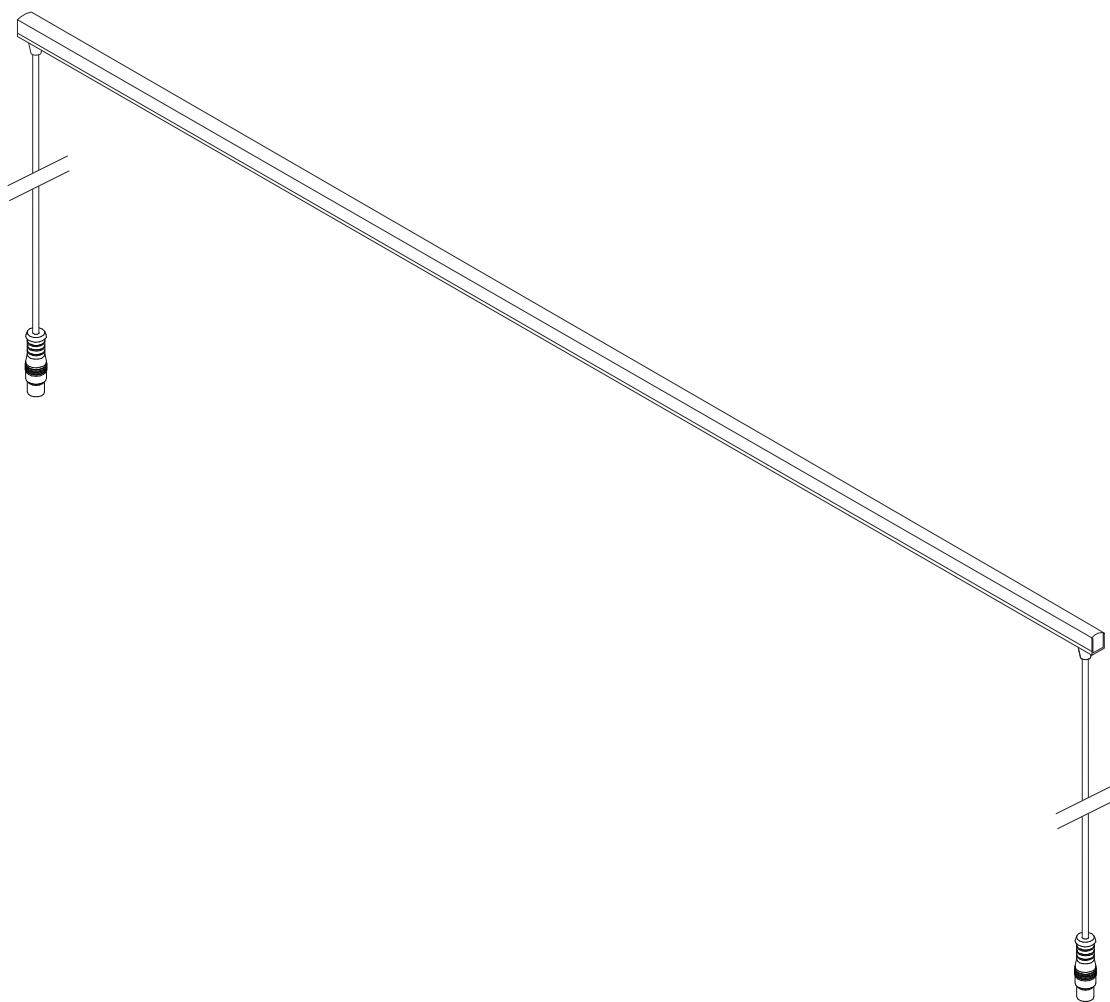
## Linear Profiles

Used to mount Luminaire in straight runs. Screws and anchors supplied for Aluminum Clips. PVC Clips require mounting hardware (by others).

### Aluminum

99549 - 39-3/8"(1m)
*Clear Anodized Finish*

C-K100007 - 39-3/8"(1m)
*Black Anodized Finish*

(5) Mounting Screws
included per profile

0.71"
18mm

0.75"
19mm
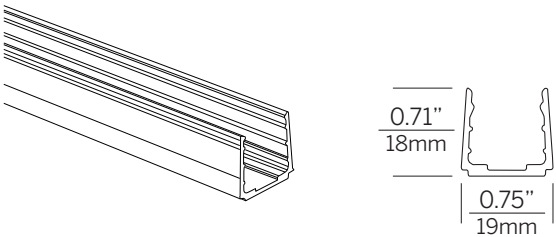
**NOTE:** Contractor must construct way to hide cable and connectors.

### Aluminum with Connector Cavity[1]

83034 - 39-3/8"(1m)
*Clear Anodized Finish*

C-K100009 - 39-3/8"(1m)
*Black Anodized Finish*

(5) Mounting Screws
included per profile

Connector Cavity*

0.4"
10mm

1.5"
39mm

0.75"
19mm

3.94"        7.87"        7.87"        7.87"        7.87"
100mm      200mm      200mm      200mm      200mm
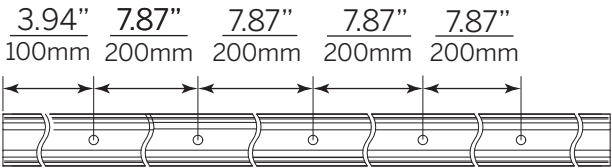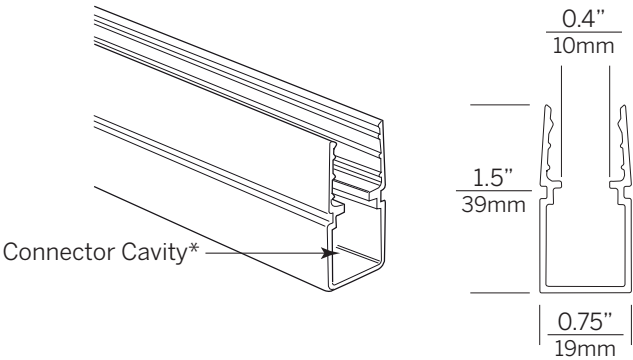
*Screw Hole Spacing for both Aluminum Channels*

### PVC[2]

◯  C-K100002 - White, 39-3/8"(1m)

### PVC with Connector Cavity[2]

◯  C-K100005 - White, 39-3/8"(1m)

Dimensions same as above.
   **NOTE:** Contractor must construct way to hide cable and connectors.

Dimensions same as above.

[1] Connector Cavity can accomodate only *one* connector pair and *no* other additional connectors or cables.

[2] PVC Channels are not predrilled; screws and anchors supplied by others.

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# Rubber 3D
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## *Mounting Luminaire and Linear profiles to Surface*

20mm

0.78"*

Direction
of Light

Luminaire

Strain Relief
Power Feed

Ø0.33"
Ø8.5mm

0.33"H
8.4mmH

**a**

**b**

**c**
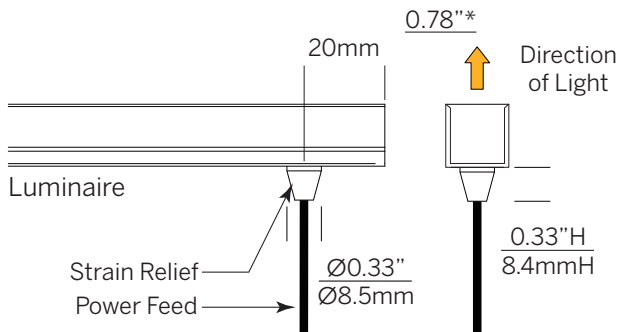
### For 99549, C-K100007, C-K100002 Linear Profiles

**a** Fasten Channel to Surface with supplied screws and anchors
(Aluminum only). PVC requires screws and anchors by others.

**b** Extend Strain Relief and Power Feed sightly beyond Channel.

**c** Insert Luminaire into Channel.

*Feed Cable distance from end of Reel has a ± .04"(1mm) tolerance

### For 83034, C-K100009, C-K100007 Linear Profiles *with* Connector Cavity[1]

**a** Fasten Channel to Surface with supplied screws and anchors (Aluminum only).
PVC requires screws and anchors by others.

**b** Position end of Luminaire flush with end of Channel

**c** Insert Luminaire into Channel. Slot allows
Luminaire to fully seat within Channel.

Slot

Connector Cavity

**a**

**b**

**c**
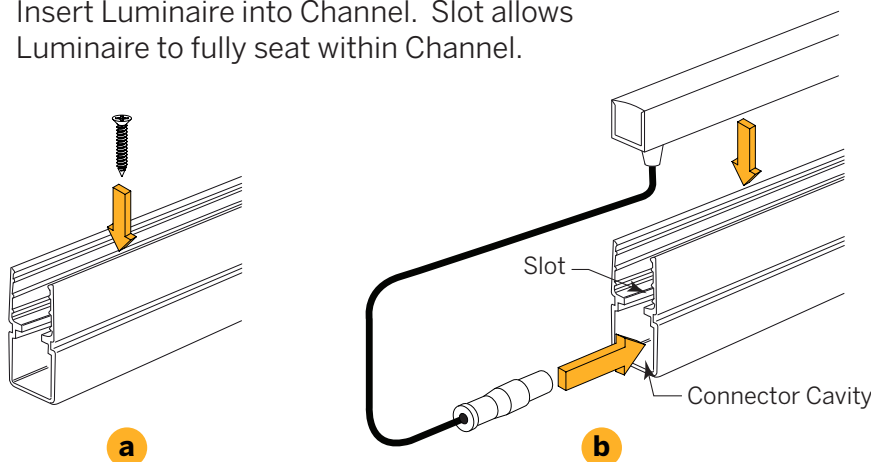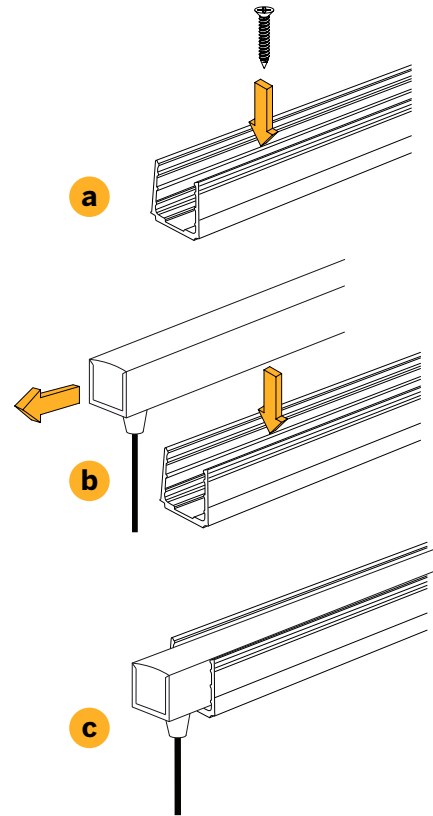
Need
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[1]Connector Cavity can accomodate only *one*
connector pair and *no* other additional con-
nectors or cables.

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## *Removing Luminaire from Linear Profile*
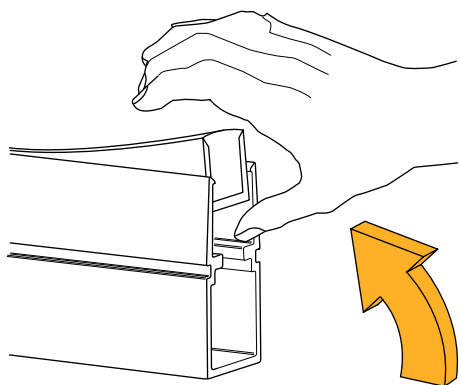
**a** Lift end of Luminaire slightly.
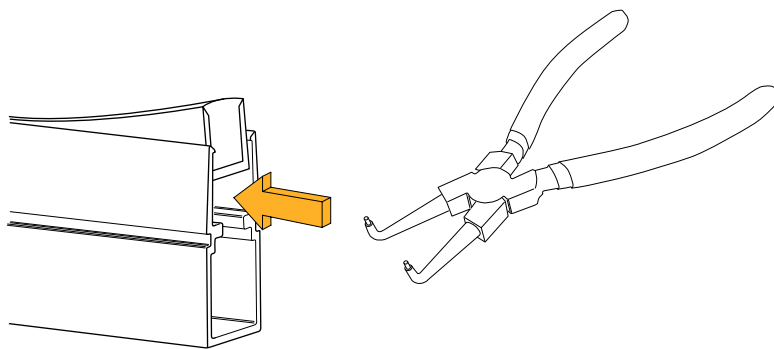
**b** Insert bent nose pliers into Channel underneath Luminaire.

**c** Spread sides of Profile apart slightly

Luminaire may be lifted out of Channel
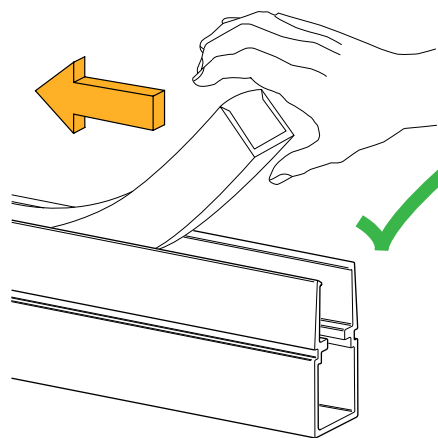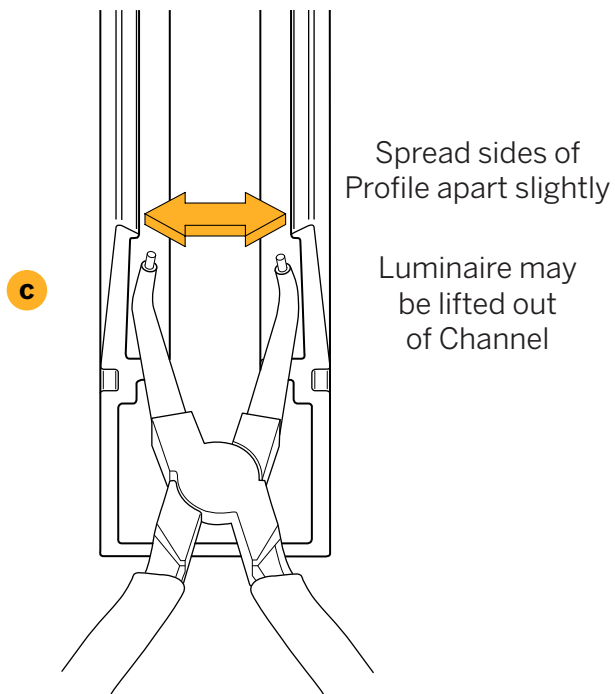
**d** Continue to lift Luminaire out along length of Channel.

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# Rubber 3D
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## *Clips*

Used to mount Luminaire in curved runs.  They may also be used in straight runs, just like the linear profiles.  Recommended spacing is 4" on center.  Screws and anchors supplied for Aluminum Clips.  PVC Clips require mounting hardware (by others).

### Aluminum

C-F400001 - 2"(50mm)
*Clear Anodized Finish*

C-F400002 - 2"(50mm)
*Black Anodized Finish*

(1) Mounting Screws
     included per profile

### Aluminum with Connector Cavity[1]

C-F400003- 2"(50mm)
*Clear Anodized Finish*

C-F400004 - 2"(50mm)
*Black Anodized Finish*

(1) Mounting Screws
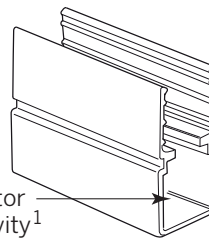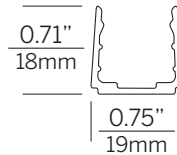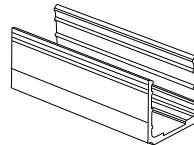     included per profile

### PVC[2]

C-K100003 - White, 2"(50mm)

### PVC[2] with Connector Cavity[1]

C-K100006 - White, 2"(50mm)

0.83"
21mm

0.91"
23mm

0.83"
21mm

1.6"
41mm

1"
25mm
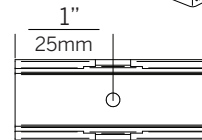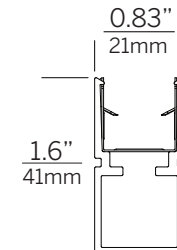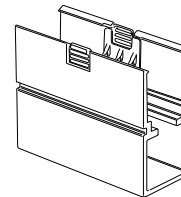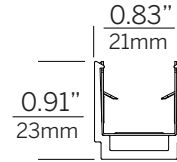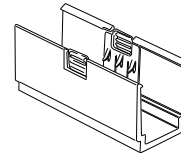
*Top View of
Aluminum Clips*

**Suggested Spacing:**
4" (100mm) on center.
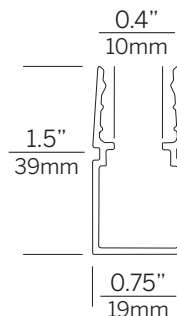
0.71"
18mm
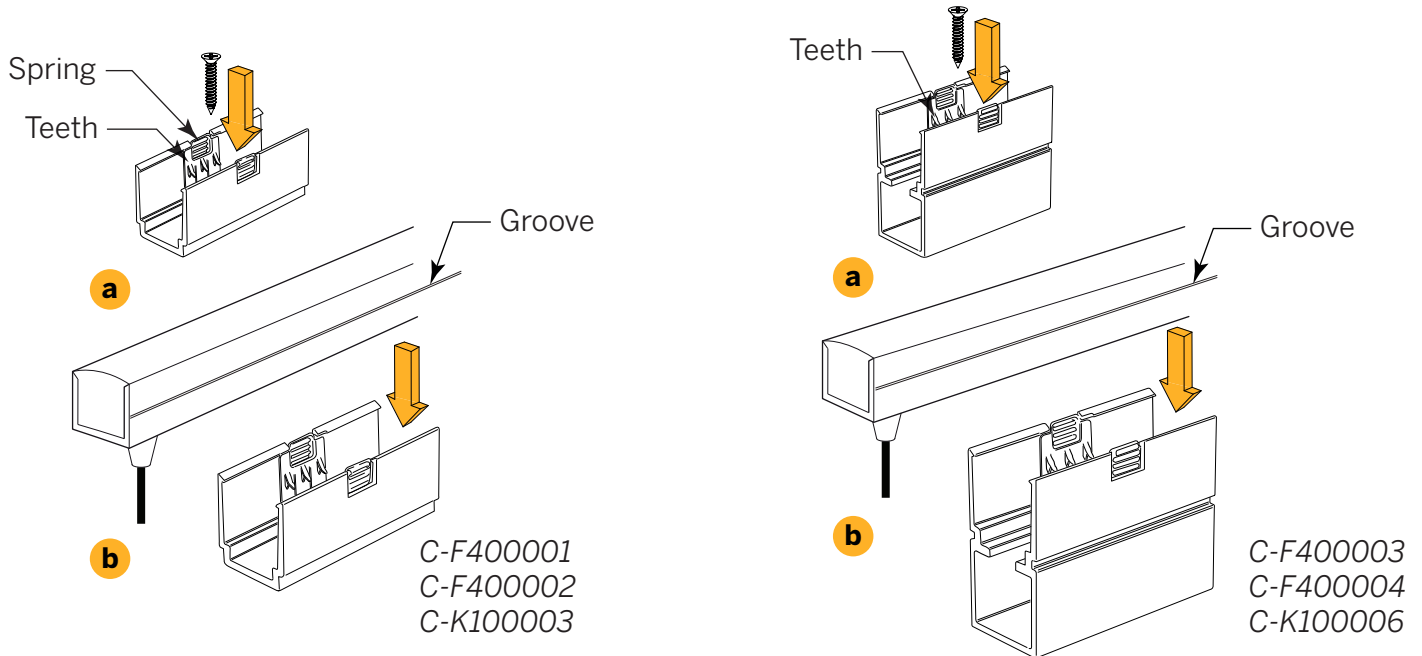
0.75"
19mm

0.4"
10mm

1.5"
39mm

Connector
Cavity[1]

0.75"
19mm

---

[1] Connector Cavity can accomodate only **one** connector pair and **no** other additional connectors or cables.

[2] PVC Channels are not predrilled; screws and anchors supplied by others.  Alternatively, they may be installed using double stick tape (by others).
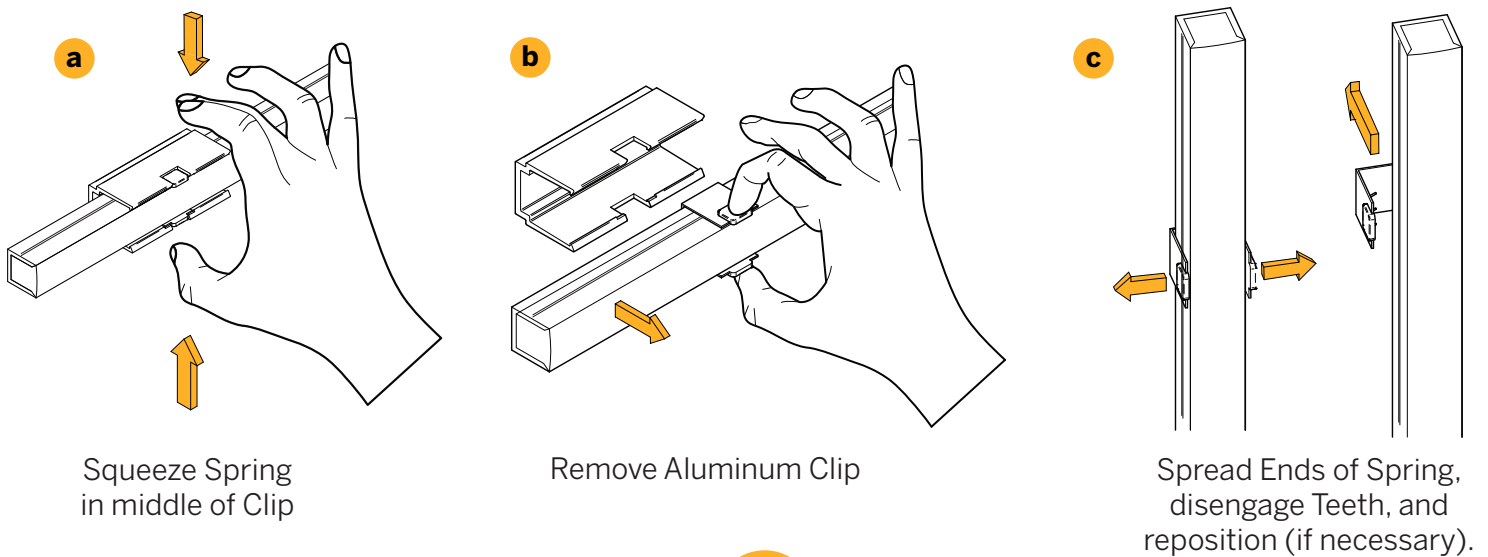
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## *Clips (continued)*

Spring

Teeth

Groove

**a**

**b**

*C-F400001*
*C-F400002*
*C-K100003*

Teeth

Groove

**a**

**b**

*C-F400003*
*C-F400004*
*C-K100006*

Teeth on Spring engage Luminaire Groove and lock it into place.

## *Removing Luminaire from Clips*

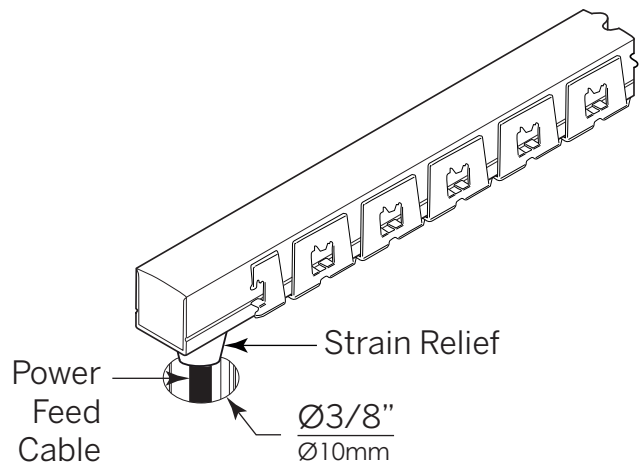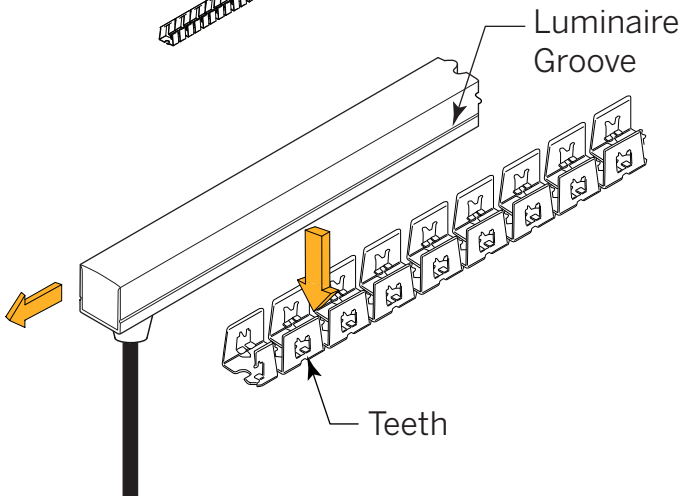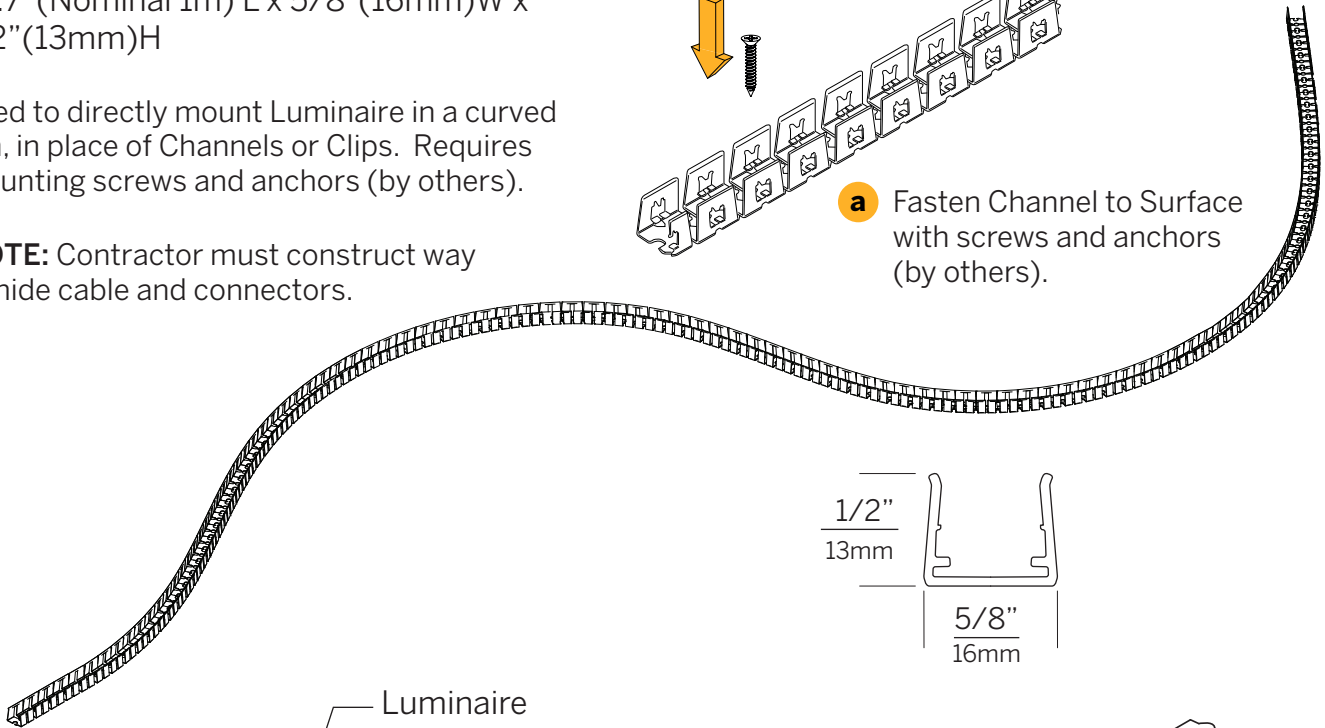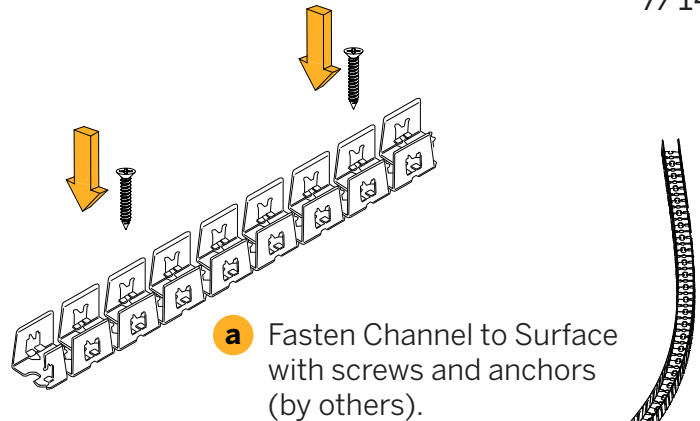Lumainaire may also be removed from clips, and repositioned, as shown below:

**a**

**b**

**c**

Squeeze Spring
in middle of Clip

Remove Aluminum Clip

Spread Ends of Spring,
disengage Teeth, and
reposition (if necessary).

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# Rubber 3D
LL-RUB-3D

## *Flexible Channels*

● C-K100011 Stainless Steel Flexible Channel
39.7"(Nominal 1m) L x 5/8"(16mm)W x
1/2"(13mm)H

Used to directly mount Luminaire in a curved
run, in place of Channels or Clips.  Requires
mounting screws and anchors (by others).

**NOTE:** Contractor must construct way
to hide cable and connectors.

**a** Fasten Channel to Surface
with screws and anchors
(by others).

1/2"
13mm

5/8"
16mm

Luminaire
Groove

Teeth

Power
Feed
Cable

Strain Relief

Ø3/8"
Ø10mm

**b** Extend Strain Relief and Power
Feed sightly beyond Channel.

**c** Insert Luminaire such that Teeth
engage Luminaire Groove

**d** Drill a 3/8" (10mm) hole in the masonry
or drywall to allow Luminaire to lie flush
on surface.

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# Rubber 3D
LL-RUB-3D

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## *Flexible Channels* (Continued)

C-K100032 Stainless Steel Flexible Anti-Glare Shield
80.1"(Nominal 2m)L x 4" (103mm)H

Used to mount Luminaire in a straight or curved run with the addition of an Anti-Glare Shield. Requires use of Channels or Clips. Mounting screws and anchors supplied with Aluminum Channels or Clips (ordered separately). PVC channels or clips require mounting hardware (by others).
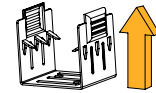
**NOTE:** Contractor must construct way to hide cable and connectors.

### *Channel*

Insert Screws through
Aluminum Channel
Mounting Holes then
again through Flexible
Channel to surface

Mounts to
Surface

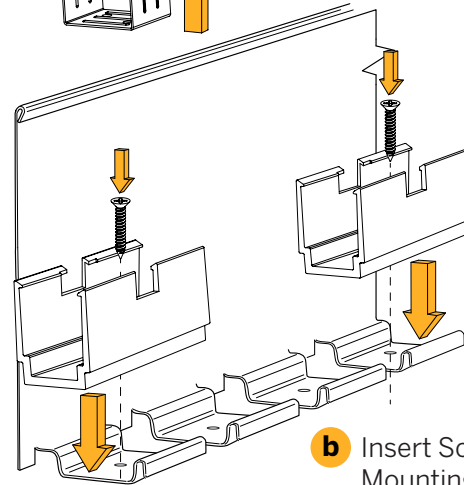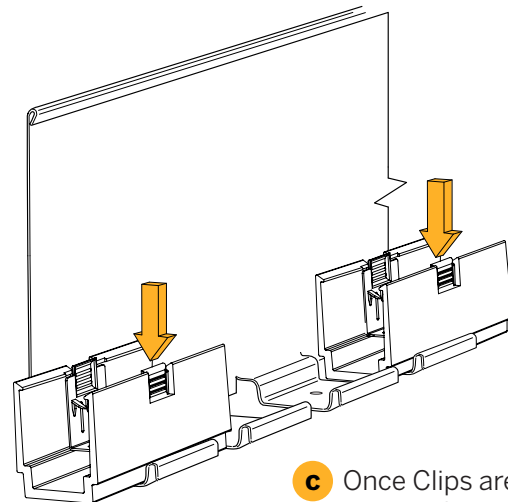Anti-Glare
Shield

Ready to Insert
Luminaire
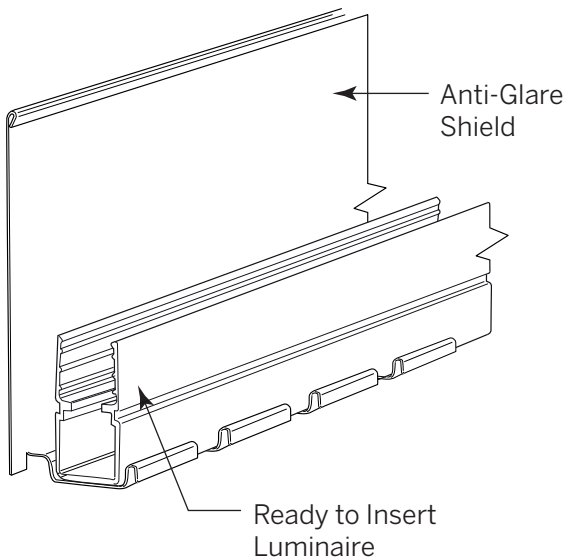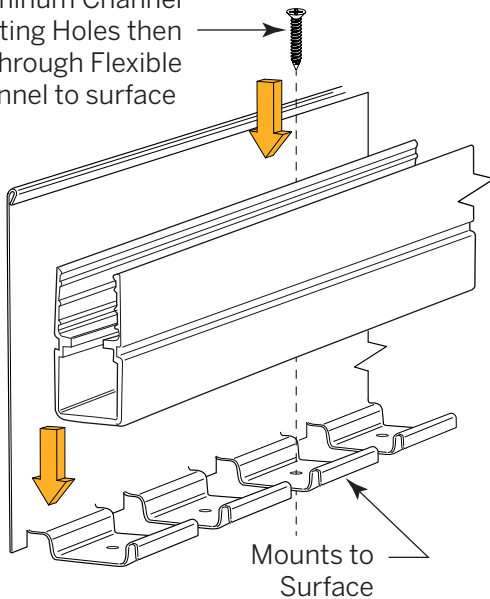
### *Clips*

Spring

**a** Remove Spring from Clips as shown on **Page 8** to access Mounting Holes.

**b** Insert Screws through Clip Mounting Holes and then through Flexible Channel to surface.

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**c** Once Clips are mounted, replace Springs and insert Luminaire.

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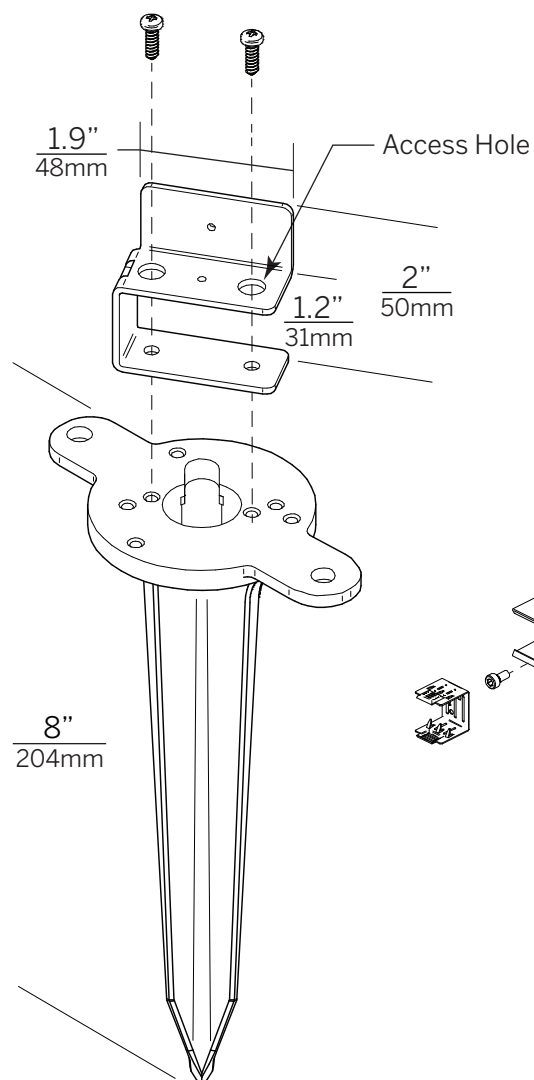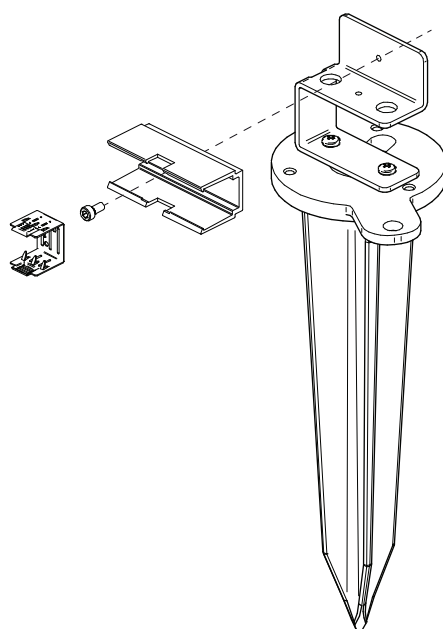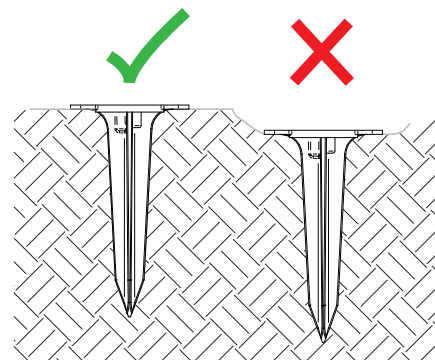
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# Rubber 3D
LL-RUB-3D

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## 83351 *Spike with Rigid Bracket*

Used in conjunction with Channel or Clips, each ordered separately. Bracket Mounting Screws included.

1.9"
48mm

Access Hole

2"
50mm

1.2"
31mm

8"
204mm

The Rigid Bracket can position the Rubber 3D in two ways: Parallel to the ground or Perpendicular the ground.

*Parallel to Ground*
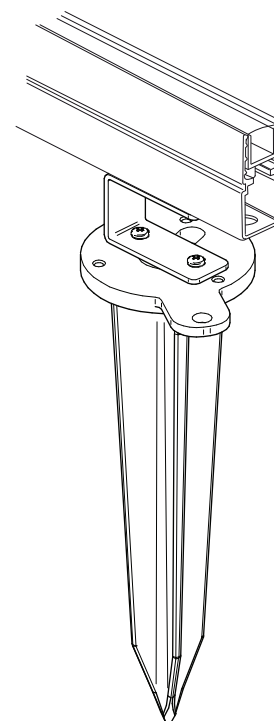
*Perpendicular to Ground*
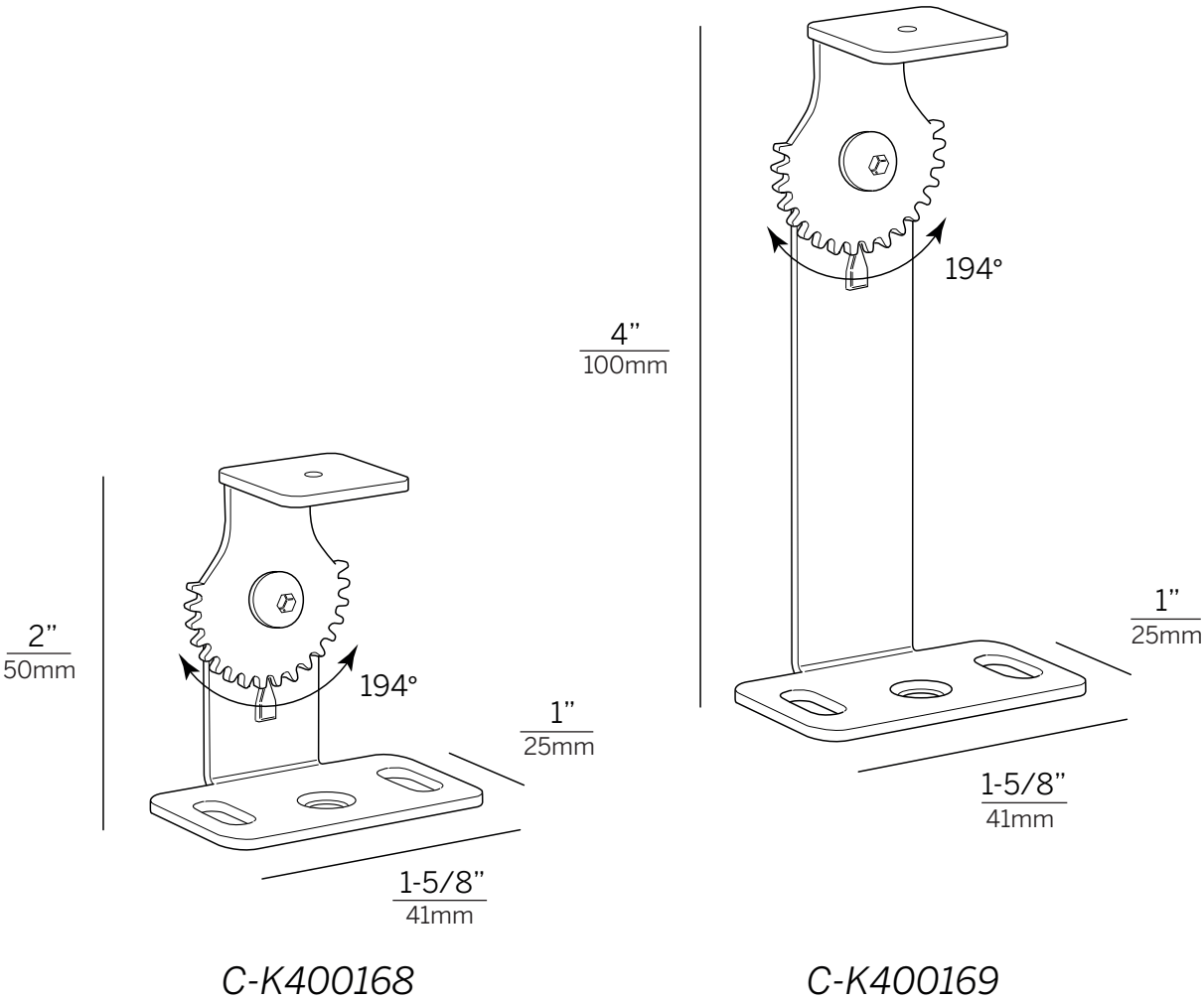
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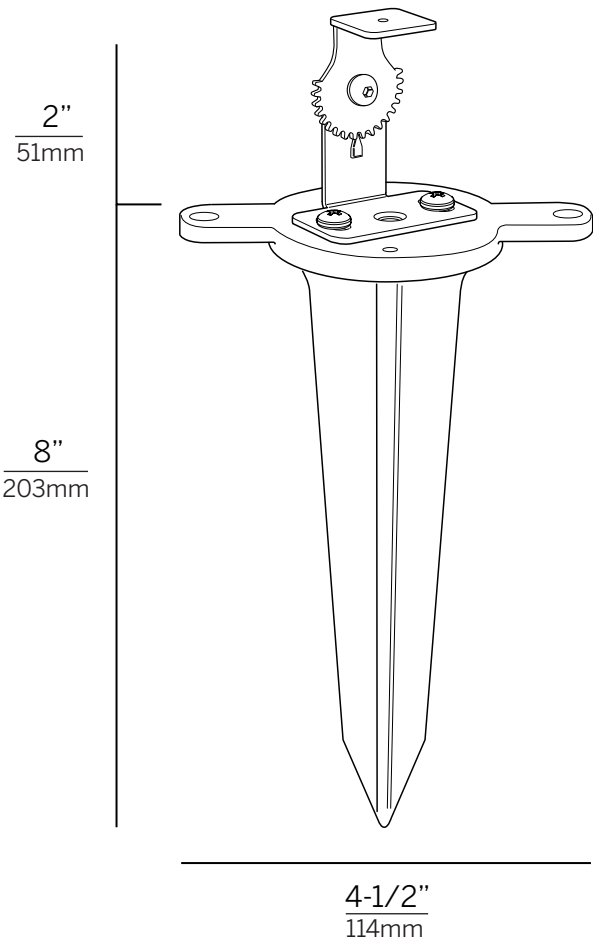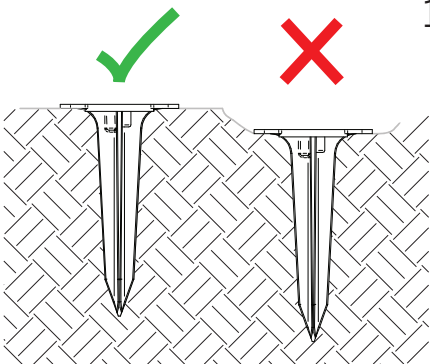
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# Rubber 3D
LL-RUB-3D

## C-K400168 *2" Metal Tilting Bracket*
## C-K400169 *4" Metal Tilting Bracket*

Used in conjunction with Channel or Clips, each ordered separately.  May be mounted on vertical or horizontal surface.  Bracket Mounting Screws and Anchors are provided.

4"
100mm

194°

1"
25mm

2"
50mm

194°

1"
25mm

1-5/8"
41mm

1-5/8"
41mm

*C-K400168*

*C-K400169*

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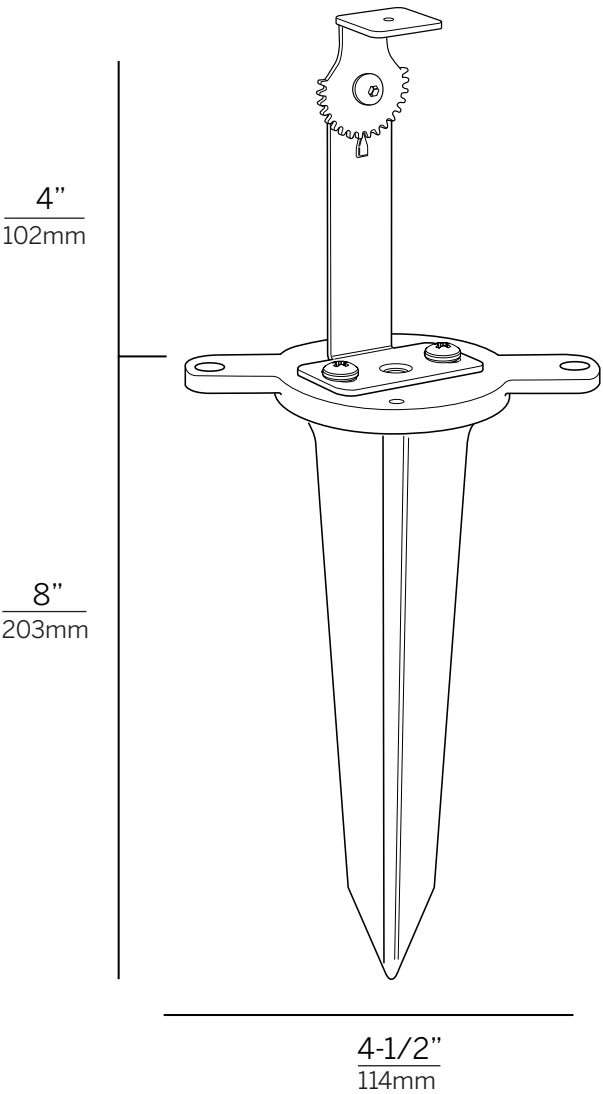
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# Rubber 3D
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C-F500004 *Metal Tilting Bracket on Spike*
C-F500005 *Metal Tilting Bracket on Spike*

Used in conjunction with Channel or Clips, each
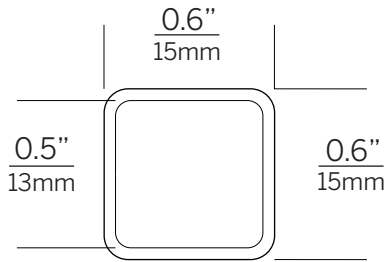ordered separately.  Bracket Mounting Screws included.



2"
51mm

8"
203mm

4-1/2"
114mm

*C-F500004*

4"
102mm

8"
203mm

4-1/2"
114mm

*C-F500005*

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# Rubber 3D
LL-RUB-3D

## 99539 *End Cap Kit*

Field cut fixtures must be terminated with an End Cap.
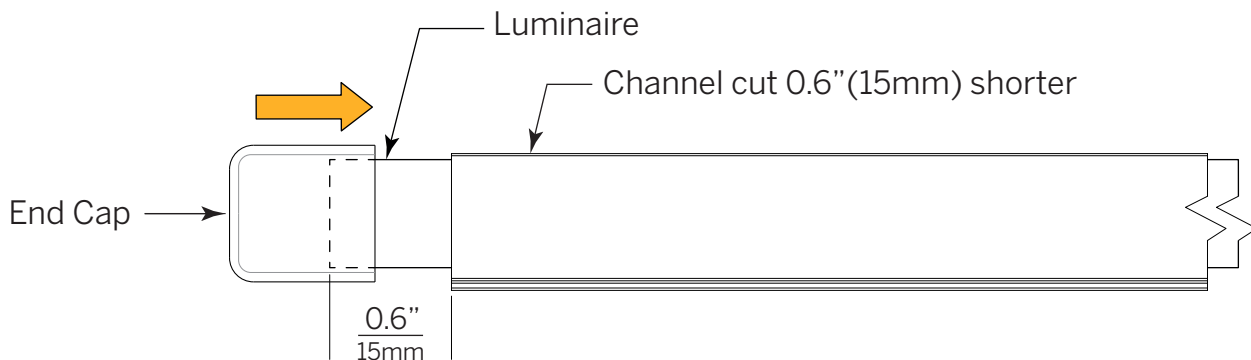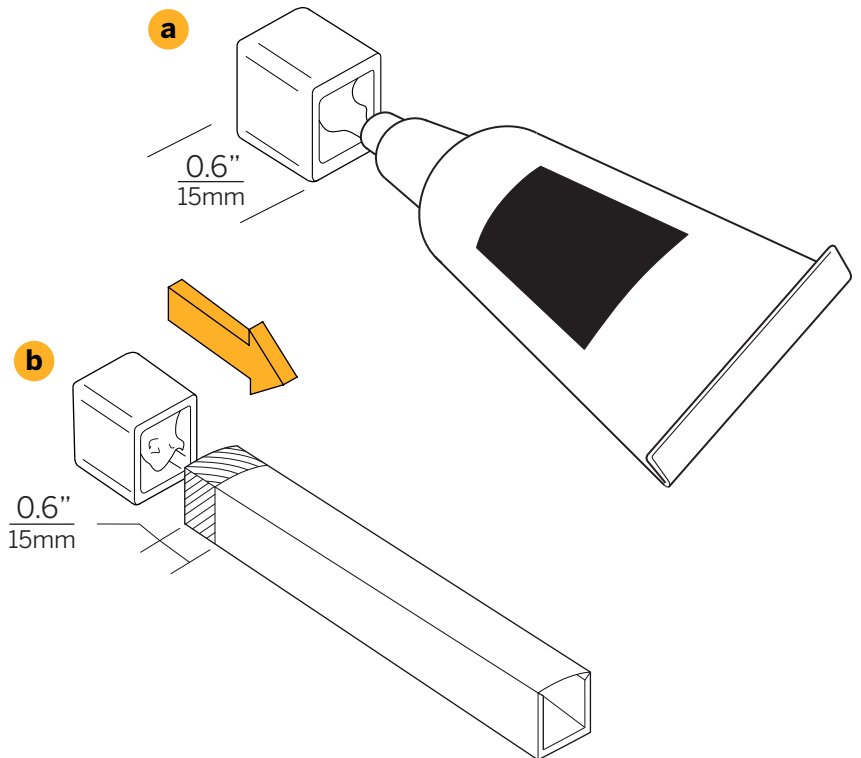
0.6"
15mm

0.5"
13mm

0.6"
15mm

99539 End Cap Kit includes (2) Caps and (1) Tube of Silicone.

**a**

0.6"
15mm

**a** Apply silicone at end of End Cap before sealing cut Fixture. Avoid squeeze-out as too much silicone can cover the LED tape's diodes.
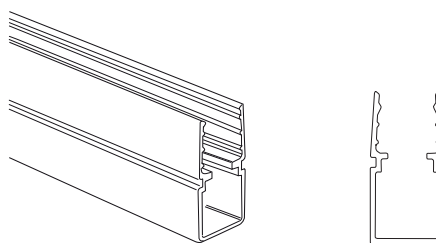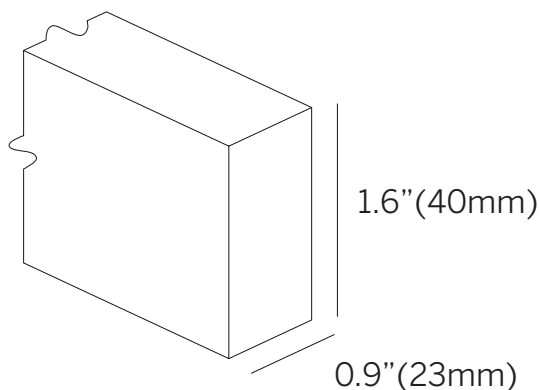
**b** Mount End Cap

**b**

0.6"
15mm

**NOTE:** If using a Channel to house the fixture, Channel needs to be cut 0.6"(15mm) shorter, as the End Cap does not fit within its confines. See illustration below.

Luminaire

Channel cut 0.6"(15mm) shorter

End Cap →

0.6"
15mm

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# Rubber 3D
LL-RUB-3D

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## 99521 *Polystyrene Concrete-Pour Preparation Kit for* 83034/C-K100009
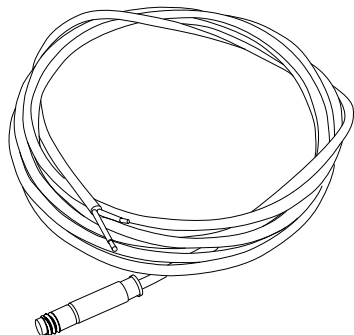
1.6"H x 0.9"W x 39.8"L polystyrene strip used as template for recessed mounting of Aluminum Channel with Wireway in poured concrete.  Cannot be used on curved runs. Set the template in place before pour, and remove before concrete fully sets.  Note that an entry/exit path for power feed from remote driver must still be constructed before pouring concrete.

1.6"(40mm)

0.9"(23mm)

For use with 83034/C-K100009
Aluminum Channel with Connector Cavity
(Ordered separately)
(See p. 1 for more information)

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# Rubber 3D
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## Cables

*2-Pole (for single CCT reels only)*

**E-W200002** *78.7"(2m)*
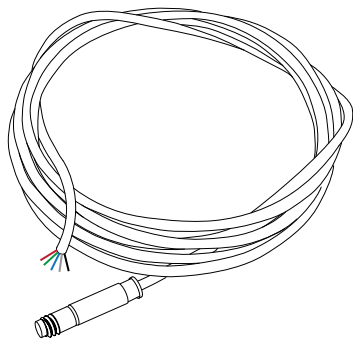*Feed Cable, Female*
*2-Pin to Bare Leads*
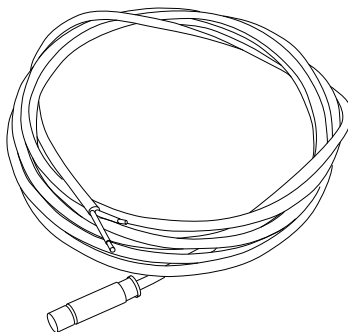
**E-W200001** *78.7"(2m)*
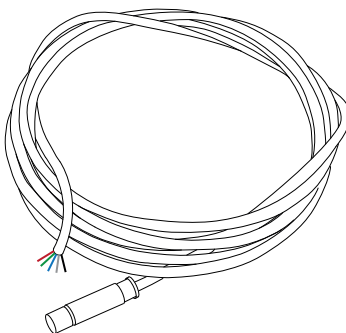*Feed Cable, Male*
*2-Pin to Bare Leads*
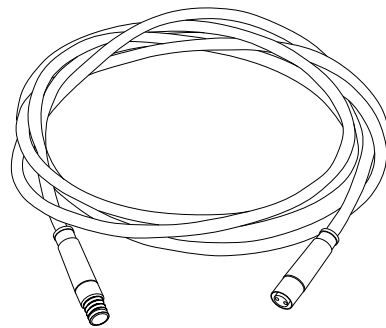
**E-W200007** *196.8"(5m)*
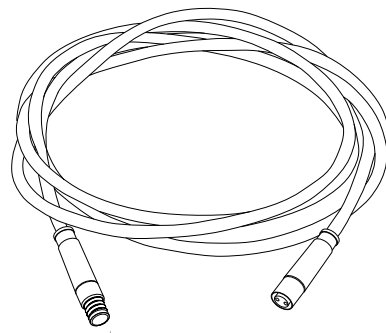*Extension Cable,*
*Male-Female 2-Pin*

*5-Pole (for RGBW reels only)*

**E-W200006** *78.7"(2m)*
*Feed Cable, Female*
*5-Pin to Bare Leads*

**E-W200005** *78.7"(2m)*
*Feed Cable, Male*
*5-Pin to Bare Leads*

**E-W200011** *196.8"(5m)*
*Extension Cable,*
*Male-Female 5-Pin*

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