

# HYBRID 3 COB SERIES

## 120V AC Hybrid Flexible Linear

Superb light output for indoor and outdoor use. Parallel wiring in 6" cutting increments ensures that if one LED goes out, the rest of the LEDs stay lit. Offering up to 300 lumens per foot, Hybrid 3 COB takes a noticeable jump in brightness, making it an effective and energy efficient option for hospitality, home theater, and other various entertainment lighting applications.

- 120V AC input voltage operation
- Available in 3000K / 4000K / 5000K color temperatures
- 90+ color rendering index
- Lumen output ranges from 260Lm up to 300Lm per foot
- Cuttable every 6" with 164ft max run (ETL listing void if cut)
- Field connectors available for power and linking capabilities
- IP65 rating featuring encased flexible housing design
- Dimmable (10-100%) with most CL and ELV dimmers
- cETLus Listed for indoor and outdoor locations
- 50,000 hours rated life



### HYBRID 3 COB QUICK SPECS

<b>INPUT VOLTAGE</b>	120V AC
<b>WATTAGE</b>	4W per ft
<b>LUMENS</b>	Up to 300Lm per ft
<b>CCT</b>	3000K / 4000K / 5000K
<b>CRI</b>	90+
<b>MAX RUN</b>	164ft (not recommended to exceed 75 feet in any single run)
<b>CUTTING POINTS</b>	Every 6" (cETLus void if cut)
<b>IP RATING</b>	IP65 - Wet Location**
<b>DIMMING</b>	10-100%*
<b>OPERATING TEMP</b>	-30°C (-22°F) to 45°C (113°F)**
<b>AMBIENT TEMP</b>	-20°C (-4°F) to 42°C (107.6°F)**
<b>STORAGE TEMP</b>	-10°C (14°F) to 30°C (86°F)**
<b>RATING</b>	cETLus Listed (Void if field cut) †
<b>RATED LIFE</b>	50000 Hours

\*Minimum loads may apply. Per the NEC, switched wall outlets cannot be used with wall dimmers.  
 \*\*Do not install in inclement weather or extreme temperature conditions (i.e. -25°C (-13°F) and below). IP65 rated only when used with pre-attached molded power cord and end cap is either pre-attached or properly sealed with dielectric grease, silicone and shrink tube  
 † cETLus Listing for 120V is void if product is cut. Recommended to order Custom Cut direct from American Lighting for outdoor installations.  
 It is not recommended to exceed 75 feet in any single run.

PROJECT: \_\_\_\_\_

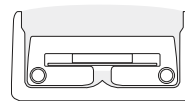
TYPE: \_\_\_\_\_

LOCATION: \_\_\_\_\_

CATALOG NUMBER: \_\_\_\_\_

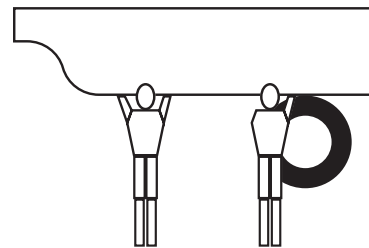


### HYBRID 3 COB IP RATINGS

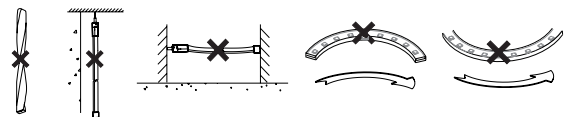


**IP65 (Encased)**  
 Fully encased tape light in sealed jacketing that allows for wet location applications.  
**Best suited:** Indoor & Outdoor wet locations

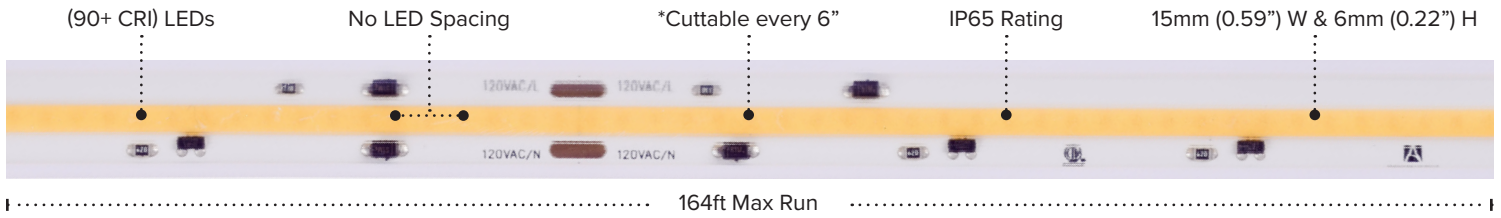
2 PERSON INSTALLATION RECOMMENDED



**DO NOT TWIST, HANG VERTICALLY, SUSPEND UNSUPPORTED IN THE MIDDLE, OR BEND ALONG SHORT SIDE**



**HYBRID 3 COB QUICK LOOK**



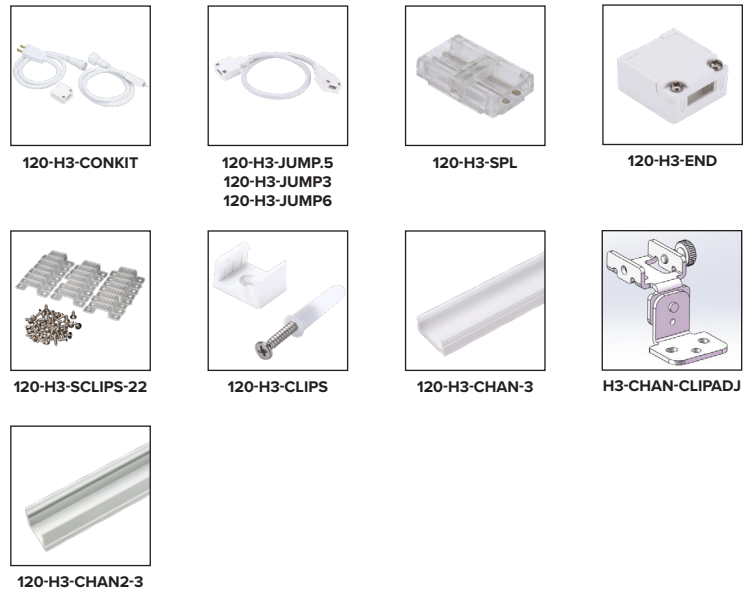
**HYBRID 3 COB ORDERING INFORMATION**

ITEM NUMBER	VOLTAGE	CCT	LENGTH	LUMENS / FT	WATTAGE / FT	IP RATING	CRI	CUTTING	MAX RUN
<b>120-H3COB-30</b>	120V AC	3000K	150 ft	260Lm / ft	4W / ft	IP65	90+	6" (150mm)	164 ft
<b>120-H3COB-40</b>	120V AC	4000K	150 ft	280Lm / ft	4W / ft	IP65	90+	6" (150mm)	164 ft
<b>120-H3COB-50</b>	120V AC	5000K	150 ft	300Lm / ft	4W / ft	IP65	90+	6" (150mm)	164 ft

Hybrid 3 COB Reels Include: (1) 5ft Attached Power Cord / (4) 120-H3-CONKIT / (50) Clear Plastic Mounting Clips with Screws

**HYBRID 3 COB ACCESSORIES**

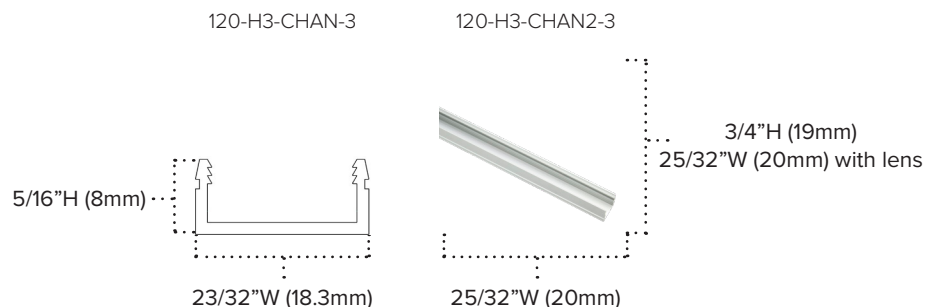
ITEM NUMBER	DESCRIPTION
<b>120-H3-CONKIT</b>	Power Connection Kit w/Plug
<b>120-H3-JUMP.5</b>	6" Linking Cable
<b>120-H3-JUMP3</b>	3ft Linking Cable
<b>120-H3-JUMP6</b>	6ft linking Cable
<b>120-H3-SPL</b>	In-line Splice
<b>120-H3-END</b>	End Cap
<b>120-H3-CLIPS</b>	Mounting Clips (Qty 10)
<b>120-H3-SCLIPS-22</b>	Saddle Mounting Clips (Qty 22)
<b>120-H3-CHAN-3</b>	1m Aluminum Mounting Channel
<b>120-H3-CHAN-CLIPADJ</b>	Adjustable Clip for 120-H3-CHAN-3
<b>120-H3-CHAN2-3</b>	1m Aluminum Deep Mounting Channel with Lens



**HYBRID 3 COB RECOMMENDED DIMMERS**

BRAND	MODEL / #	TYPE	DIMMING RANGE
<b>LUTRON</b>	DIVA / DVELV-300P-LA	ELV	10-100%
<b>LUTRON</b>	SKYLARK / SELV 300P	ELV	10-100%

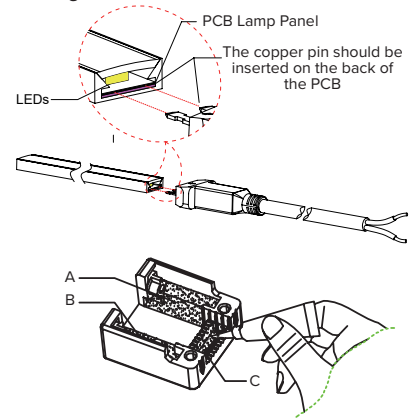
**HYBRID 3 CHANNEL DIMENSIONS**



## HYBRID 3 CONSIDERATIONS

**BE SURE TO READ THE INSTRUCTION MANUAL (INCLUDED WITH THE PRODUCT OR DOWNLOADABLE ON AMERICANLIGHTING.COM) FULLY PRIOR TO ATTEMPTING INSTALLATION**

- Follow instructions carefully when splicing Hybrid 3 sections or attaching power cords. Ensure that all connections, including the end cap on the last segment, are properly installed with dielectric grease and shrink tube to preclude the entrance of water (outdoor applications). cETLus Listing is void when product is cut.
  - Risk of fire. Do not replace attachment plug. Discard product if attachment plug is damaged.
  - **120V Hybrid 3 is cETLus Listed, but this safety rating is void if the 164ft reel is cut.** Cutting the Hybrid 3 and/or altering the power cord in any way including, but not limited to cutting, splicing, and/or adding any power accessories will void the ETLus Listing.
  - Do not exceed 164ft maximum run distance in any single run (75ft maximum recommended).
1. Determine the required length for flexible light.
  2. Cut the Hybrid 3 squarely at the nearest cut mark using a sharp rope light cutting tool or shears. See Figure 1. NOTE: Hybrid 3 is wired in parallel with 4" cutting increments. Cutting anywhere other than cutting increment will damage an LED and/or internal wiring.
  3. Place the rubber ring (included with the conkit) into the pin block side of the conkit. See Figure 2.
  4. Insert transparent "U" plug (included with conkit) into upper surface of the PCB inside the Hybrid 3. See Figure 3.
  5. Insert the pin block into the Hybrid 3 strip as shown in Figure 4. The copper pins should be inserted on the back of the PCB.
  6. Apply silicone glue to locations A, B, and C of pin block. See Figure 5.
  7. Press the pin block and Hybrid 3 into the connector's pedestal, then place the cover over the pedestal. See Figure 6.
  8. Screw down the lock screws to secure the conkit in place. See Figure 7.
  9. Plug the 120V plug into an appropriate 120V receptacle.





## AMERICAN LIGHTING WARRANTY

LIMITED WARRANTY FOR LED PRODUCTS: 1 YEARS

### AVERAGE LIFE

Average incandescent lamp life, rated life and average life are terms used to describe the number of hours at which half of the lamps have failed. For LEDs, the hours of rated life specify the point at which 70% of original lumen output is reached. Below this point, the effective life is over, however, the LED may still emit light. Individual results may vary with actual environmental conditions including, but not limited to, proper installation, ambient temperature and/or input voltage fluctuations.

**Warranty life based on average 8 hours/day use, 7 days/week. Product should be cycled off for at least 6 hours per day.**

### SAFETY

You must disconnect lighting products from the power supply before servicing or replacing bulbs. Only qualified personnel should install and perform service on lighting products. Periodic inspection and maintenance is required to keep equipment operating properly and at peak performance. Do not mount fixtures on or adjacent to combustible materials.

**Lighting products may present a possible shock or fire hazard if improperly installed or attached in any way. Products should always be installed in accordance with their instruction manuals, current electrical codes, and/or the current National Electric Code (NEC). Code compliance is the sole responsibility of the person, company, or party performing the installation of product. Failure to comply with national and/or regional safety codes may result in hazardous or dangerous conditions, damage to property or life, and/or altered product performance/specifications.**

### LIMITED PRODUCT WARRANTY

Our products are warranted to be free from defects in material and workmanship for the warranty period listed on the reverse by product category. Warranty periods begin from the date of shipment from American Lighting Inc's warehouse to the original purchaser. Products that prove to be defective during their specific warranty period will be either repaired or replaced, at the sole discretion of American Lighting Inc. Claims for defective products must be submitted in writing to American Lighting Inc's RGA Department within the warranty period. Upon approval of such return, American Lighting Inc reserves the right to inspect the product for misuse or abuse. Claims for indirect or consequential damages or for any product that, in American Lighting Inc's opinion, has been misused will be denied. This is a warranty of product reliability only and not a warranty of merchantability or fitness for a particular purpose. American Lighting Inc shall have no liability whatsoever in any event for payment of incidental or consequential damages, including, without limitations, installation costs and/or damages for personal injury and/or property. These products may represent a possible shock or fire hazard if improperly installed or altered in any way. This warranty does not apply to any product that has not been properly installed in accordance with current local codes and/or the National Electrical Code. Products that require a transformer, driver or power supply must be used in conjunction with American Lighting Inc's recommended power supply to ensure safety and retain product warranty. Limited Product Warranty applies to lengths up to 75 feet for rope light products.

### STANDARD LINEAR WARRANTY

Rope light and linear lighting products in all their various types and shapes, whether LED or incandescent, are wired in series parallel. This means that several individual lamps or LEDs are wired together in series to equal 12V, 24V or 120V. Then these sections are wired together (in parallel) to light up in unison. If one solder joint, lamp or resistor fails, a whole section will not light. Due to the number of elements involved, and the numerous extenuating circumstances beyond our control, American Lighting Inc offers a Standard Linear Warranty on most linear lighting products. The limited liability warranty is listed above, however the Standard Linear Warranty offers replacement product by section due to defective material and/or workmanship for one year beginning from the date of shipment from American Lighting Inc's warehouse to the original purchaser.

### USE OF LINEAR LIGHTING IN OUTDOOR APPLICATIONS

Incandescent rope light and LED Flexbrite UL 2388 custom cuts; incandescent and LED Flexbrite pre-packaged kits; and UL Listed (special order) cuts of LED Neon Flexbrite Plus and Economy have factory assembled power connections and end caps that seal the rope from moisture. Due to strict quality control standards, American Lighting is able to offer a limited warranty on these items rather than the standard linear lighting warranty that replaces product by defective section only. For outdoor applications, best practices include using kits interconnected (same length kits are best for color control of White LED Flexbrite) or using custom cuts that do not exceed 75 feet.

For all linear lighting categories, any non-rated field connection made in an outdoor application should be properly sealed with dielectric grease covering all conductive materials; and properly installed power connections and end caps, sealed with dielectric grease, silicone, and heat shrink tube. However, since non-rated (field executed) power connections of linear lighting products cannot be quality controlled, and outdoor use of non-rated product is not recommended, American Lighting cannot warrant the product to any purchaser.

### PRODUCT SPECIFICATIONS

For the latest product information, updates, instructions and details concerning specifications, colors, finishes, performance, installation and design, visit [www.americanlighting.com](http://www.americanlighting.com). Color may vary from the color printed herein due to limitations in photographic and printing processes. American Lighting Inc. reserves the right to change product specifications without notice. Other product specifications such as color temperature, wavelength characteristics and lumen output are subject to production limitations and may vary.

LED technology is changing rapidly, and not all color temperatures and performance levels can be duplicated at a later time. Best practices include purchasing 10-15% additional product for a project on the same initial order where white LED color temperatures must be maintained over project and product life. Eventual product replacement should be considered at layout and design stages. Best practices also include testing connections and product performance prior to mounting and/or installing.