

Even-Glow COB LED Strip Light

Single White COB Contractor Reel Specifications



Available Models¹

- STN-A30K90-O16A-08L30M-24V
- STN-A40K90-O16A-08L30M-24V

SAMPLE PART NUMBER BREAKDOWN

STN-A27K90-O16A-08L30M-24V

Series	Strip Type	CCT	CRI	LED Type	LEDs/Segment	IP Rating ²	Width	Density	Length	Voltage
STN	A	30K	90	O	16	A	08	L	30M	24V
Non-weatherproof	Single White	30K: 3000K 40K: 4000K	90+	COB	16 LEDs/seg	IP20	8mm	512 LEDs/m	30 meters	24 VDC

Overview

The Even-Glow series 30 m LED COB strip light creates a fully diffused, smooth line of light for applications near reflective surfaces like granite countertops and tile floors. The 30-meter contractor reel is ideal for lighting professionals, providing enough length to complete multiple projects reducing waste and cost. The high-density tape light has 156 LEDs per foot, delivering 274 lm/ft with 90+ high CRI lighting for accurate color rendering. It is low-profile with an 8 mm width and 3M™ adhesive backing for easy installation. Customize length with cut points located every 1.2 in.

Features

- Efficient choice for contractors and lighting professionals
- COB LEDs create an uninterrupted dotless line of light
- Low profile strip delivers up to 274 lm/ft
- 90+ High CRI for accurate color rendering

Product Details

- Class 2 Max Run - 32.8 ft (10 m)
- Cut Segment Length - 1.2 in. (31 mm)
- Strip Width: 8mm
- 3M™ adhesive backing
- Pigtail Connection
- 24 VDC Input

Certifications and Compliances

- ETL Listed - UL 2108
- CE compliant



Applications

- Bars and Restaurants
- Countertop Lighting
- Cove Lighting
- Display Cases
- Retail Shops
- Task Lighting
- Toe Kick Lighting
- Trade Shows
- Under-Cabinets

Warranty

- 5-year warranty



¹Contact customer service if interested in other options.

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Installation Instructions

1. Plan Your Layout

Identify COB strip placement, including how long each run will be and where to place the power supply. Depending on how evenly you want the light to appear, decide on a straight run, center feed, loop-back, or multi-leg. Hidden placements like under cabinets or inside coves produce indirect illumination for ideal lighting results.

2. Match the Power Supply

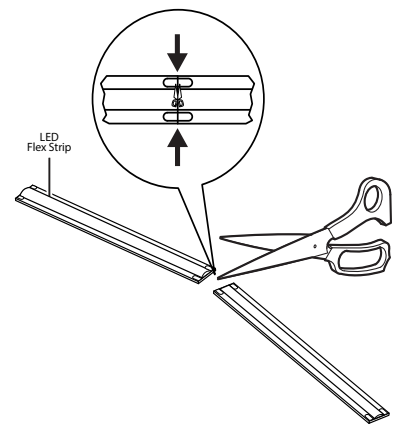
First, calculate the total strip wattage by multiplying the total strip length by the power used per foot for the total strip wattage. Next, use the following formula to determine the minimum necessary wattage of your power supply

$$\text{Total Strip Wattage} / 0.80 = \text{Minimum Power Supply Wattage}$$

Round up to the nearest wattage, and this number will provide you with the 20% wattage overhead required to maintain power supply longevity.

3. Cutting the Strip

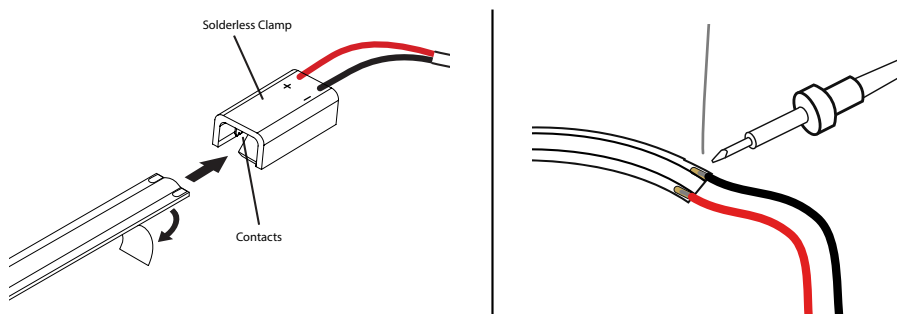
If you need to cut the strip to a custom length, unroll the strip and find the marked cut points, usually between copper pads. Make sure the strip is not powered when cutting. Use sharp scissors to cut only on these lines. Cutting anywhere else can break the circuit.



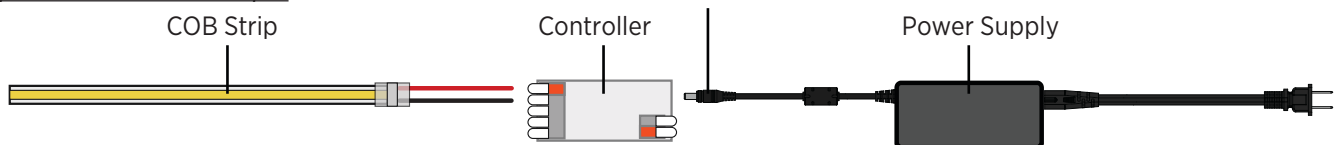
4. Connecting the Strip (Solderless or Soldering)

To connect cut sections of LED strips to a power supply or controller, wires can be soldered directly to the copper pads or solderless connectors may be used as an alternative. To use a solderless connector, open the connector, then slide in the cut end of the strip so the copper pads line up with the contacts inside. Ensure the connector is oriented correctly so the contacts pierce through the top of the strip. Close the connector to lock it in place. Use jumper connectors instead of bending the strip for corners or gaps.

Note: Illustrations show wiring for single-color strip. Follow specific wiring diagram for strip and controller type.



Typical Installation Example



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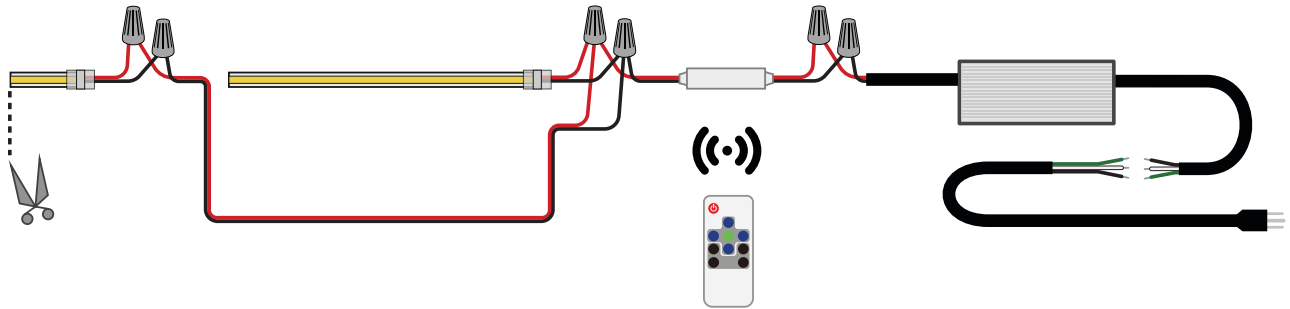
Single White COB Contractor Reel Specifications

Installation Instructions (cont.)

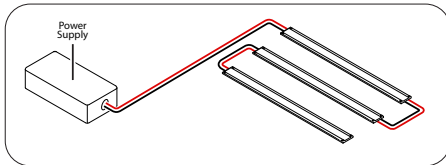
5. Extend the Wiring

Use the lowest gauge wire that's practical for your setup, based on the total current draw and length of the run. As a general guideline, 22 AWG is suitable for short, low-power runs, while 18 AWG or lower is recommended for longer runs or higher-powered strips. Keep the wiring short where possible and double-check polarity. Longer runs can lead to voltage drop and dimming at the far end of the strip.

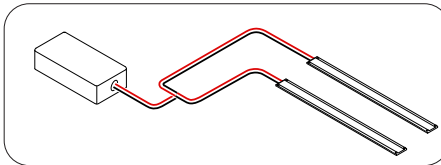
Extended Power Wire Installation Example



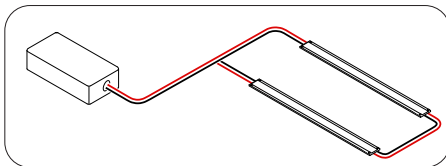
Straight Run Layout



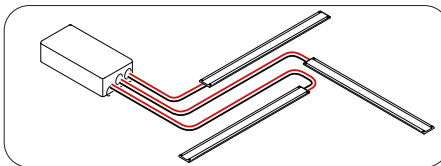
Center Feed Layout



Loop-back Layout



Multi-leg Layout



Voltage Drop

As current travels through the strip, resistance in the circuit causes a drop in voltage over the length of the strip, leading to dimmer light at the far end. Wire length and total power draw of the circuit influence the amount of voltage drop. To reduce it, keep wire lengths short, use thicker gauge wire, or split the power feed (center-feed or loop-back).

6. Prepare the Surface

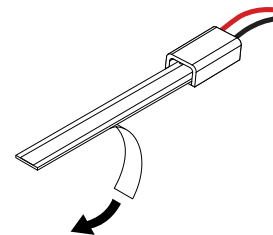
Wipe the mounting area with alcohol or another cleaner that removes dust, oils, and residue. The strong 3M™ adhesive backing is intended for a single application.

7. Connect to Power and Test

Connect the wires from the strip or connector to the output side of the power supply or controller. Match the positive and negative sides. If you're unsure, use a multimeter. If using a dimmer or switch, install it according to the product's installation instructions. Before mounting, test the strip to make sure all sections light up properly and there are no connection issues.

8. Mount the Strip

Peel the paper from the adhesive backing and press the strip firmly into place. Work slowly from one end to the other to avoid bubbles or wrinkles. To prevent damage to the circuit, avoid bending the strip sharply or folding it over itself. Use flexible connectors for any sharp turns or difficult areas.



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SPECIFICATIONS	
Model	STN-AxK90-O16A-08L30M-24V
ELECTRICAL	
Operating Voltage	24 VDC
Wattage	300 Watts
Wattage per Foot	3.1 W/ft
Current Draw	12.5A
Current Draw per Foot	127 mA/ft
Dimmer Type	PWM
PHOTOMETRIC	
Color Temperature	3000 or 4000K (as ordered)
Lumens per Foot	274 lm/ft
Efficacy	90 lm/W
CRI	90+
Beam Angle	180°
MECHANICAL	
Max Run (Class 2)	32.8ft (10m)
Minimum Cut Length	31mm (1.2in.)
LEDs per Segment	16
Length	98.4ft (30m)
Strip Width	8mm (0.31in.)
LED Density	156 LEDs/ft
LED Type	COB (chip-on-board)
LED Lifetime	50000 hours
Input Connection Type	Pigtail
ENVIRONMENTAL	
IP Rating	IP20
Environmental Rating	Indoor Only
Ambient Operating Temperature	-25 to 55°C (-13 to 131°F)

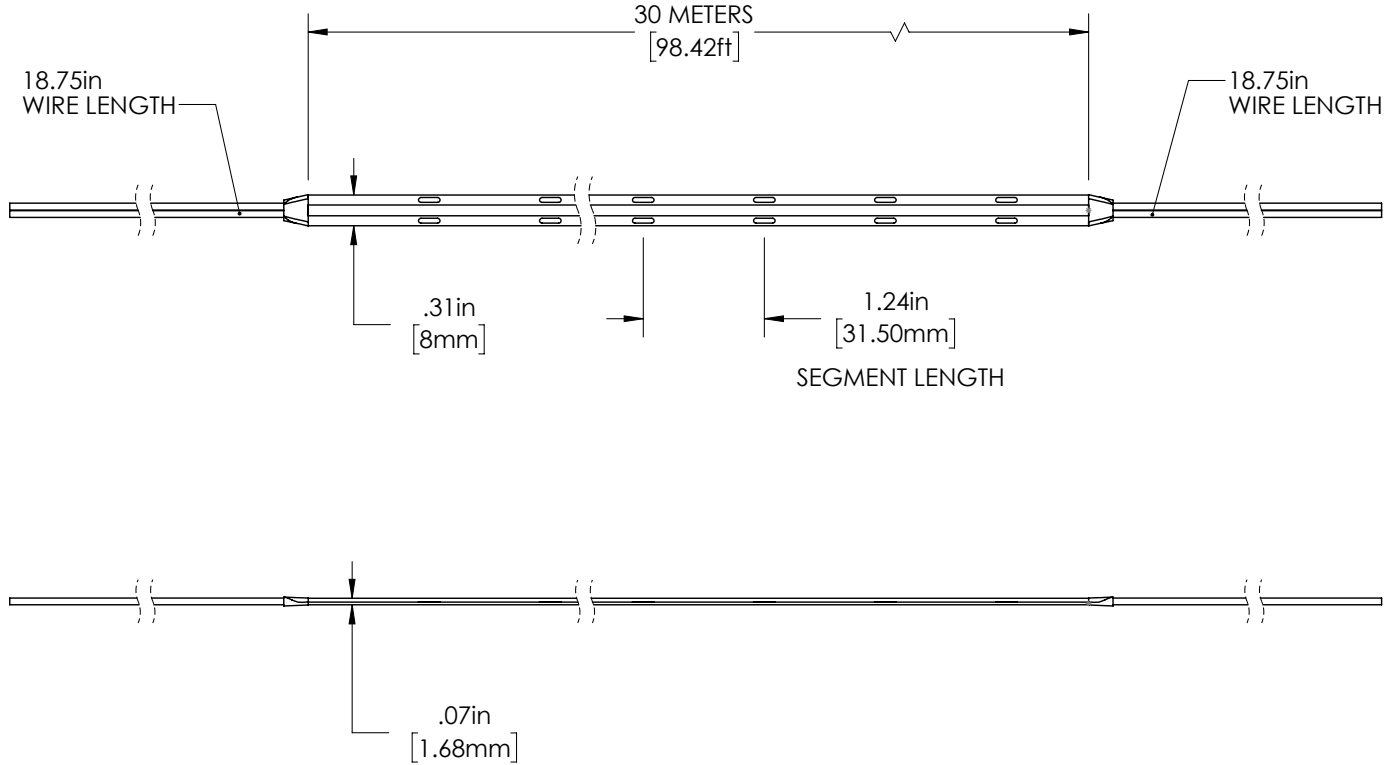


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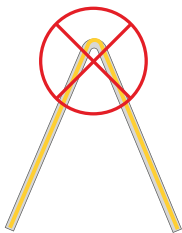
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Dimensional Drawings

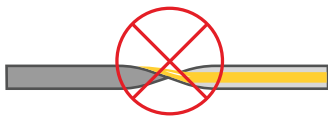
STN-AxK90-016A-08L30M-24V



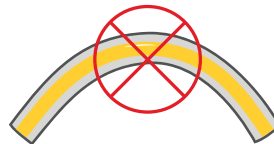
Strip Flexibility



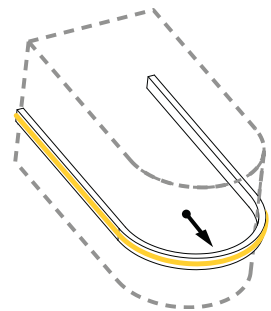
Bending strips at sharp angles will damage circuit traces and void warranty.



Twisting strips will damage circuit traces and void warranty.



Bending strips on horizontal plane will damage circuit traces and void warranty.



Minimum bending radius $\geq 1.97\text{in. [50mm]}$

