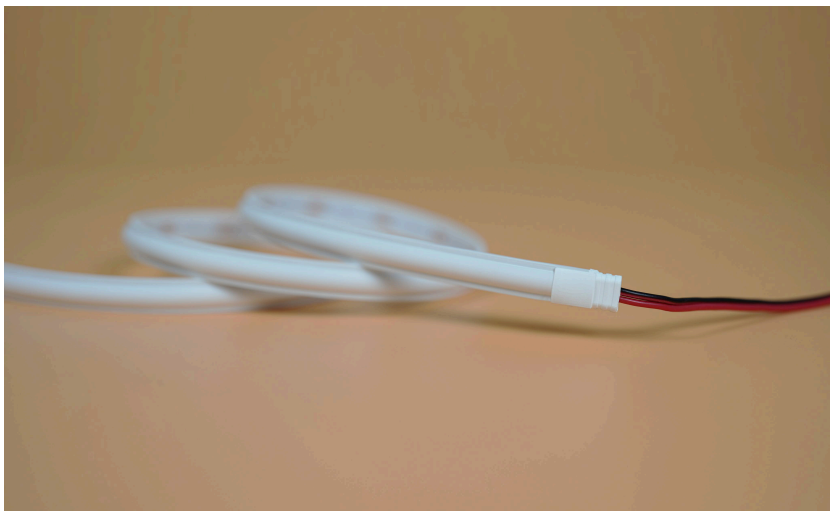
12V - 4.8W
IP67
SEAMLESS LED STRIP

///ArcLED

+44 1752 917447 info@arc-led.co.uk www.arc-led.co.uk

ARC-12-48

4.8W IP67 SEAMLESS LED STRIP

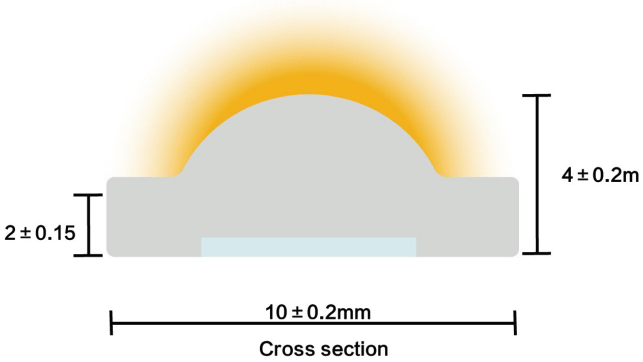


Advantages:

Ultra-thin and elegant design with totally dot-free visual performance.
IP67 waterproof, suitable for various applications.
Strong reliability due to the co-extrusion technique and select LED of high-strength bracket. High light transmittance, anticorrosion & anti-UV.

Note:
Max. run length refers to single side feed in serial connection.
The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

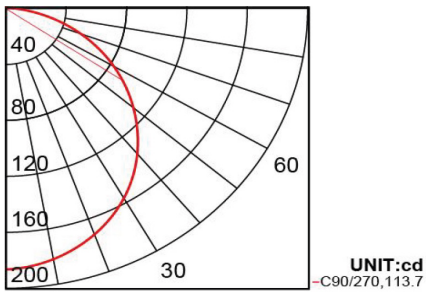
The given color temperature is the temperature of finished product.



*All dimensions specified are for the LED strip itself without backing adhesive.

Techinical Details

CRI	Ra≥90
Average Life (L80B10)	>54,000 hours
Storage Temperature	-40°C ~ 60°C
Operating Temperature	-40°C ~ 55°C
Cut Points	10.86mm
Width	10mm
Max. Run Length	7M

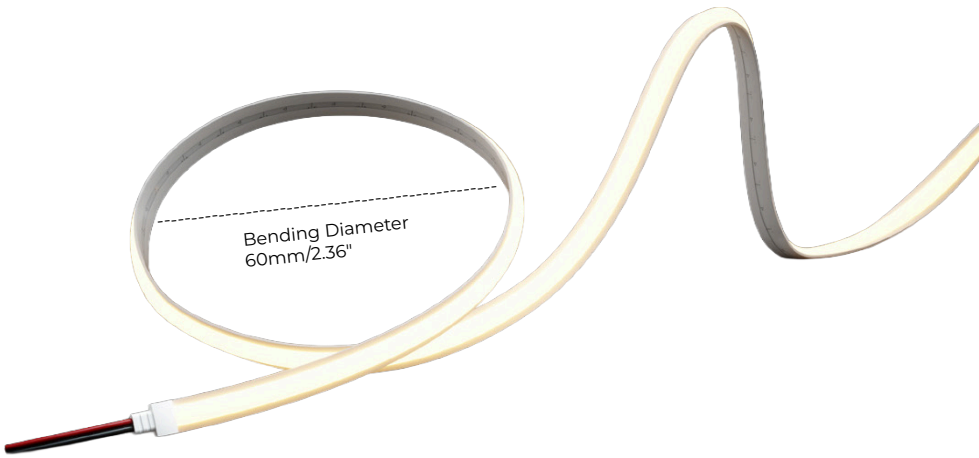


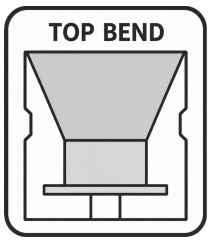
Applications

Under cabinets, niches, shelves, Bathrooms, Wet rooms, millwork, furnitures, etc

Lumen Output (lm/m)

CCT	Lumen Output
2700K	420LM
3000K	456LM
4000K	464LM





ADDITIONAL PRODUCT INFORMATION

- IPC 6013C: LED strips are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.
- Operating environment: If the operating environment covers a broad temperature range (such as outdoors applications) and the operating length is longer than 2 meters, the use of adequate mounting surfaces is required. Assure enough space for strip expansion and heat dissipation with increasing temperature.
- Power control and supply: Use only ARCLED drivers in accordance with applicable lighting standards and LED strip ratings. In order to safely operate ArcLED strips it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. Please select a power control device that meets international certification requirements to ensure the installation and operation of the product.
- Hydrogen sulfide: The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H2S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H2S may be rubber, foam rubber, soft-foam tapes, rubber -based sealing, natural sources (e.g. sulfur springs), etc. To avoid H2S from sulfur -vulcanized rubber use silicon -based materials or peroxide -crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.
- Humidity and dust: For applications involving exposure to humidity and dust, the strip must be protected by a fixture or housing with a suitable IP protection class.
- Electrical isolation: Always ensure electrical isolation between the LED strip and the mounting surface, especially in the vicinity of connections or cut ends.
- Lifetime: Exceeding maximum operating and storage temperature ratings can reduces the expected lifetime or even destroy the LED strip. The temperature of the LED strip must be measured at the Tc-point in accordance with EN 60598 -1 under steady -state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the Tc-point.
- Installation: Installation of LED strips and connection to the power supply must comply with all applicable electrical and safety standards.

Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.

Only a qualified electrician may install the strip.

Handle with care and ensure that there is no physical product damage, including damage to invisible internal electronics parts.

Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED strip.

Never exceed the maximum operable length, including other wires.

- IP20 Product: Part IP20 LED strips are equipped with a self-adhesive tape for attaching the LED strip to suitable materials, such as aluminum profiles, which must be clean and free of oil, silicone coatings, or any other dirt/dust particles. The adhesive tape is intended for single use, and if removed may damage the material to which it is stuck and the LED strip itself, which must then be scrapped. After products are equipped, it will take at least 72 hours to complete adhesion.

IP20 LED strips, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment(equipped with aluminum profiles) is possible, however materials must be selected properly in order to avoid product damage or impaired performance. The user must also completely seal the cut parts (ends/edges), to ensure the IP level still meet customer requirements.

IP20 LED strips are ESD-sensitive; take adequate precautions during installation and operation of the products.

- Consult ARCLED Technical Service for further advice.