

Explosion-Proof LED Strip Lights



II 2G Ex mb op is IIC T4 Gb
II 2D Ex mb op is IIIC T135°C Db

ATEX approved for **Zones 1&2, Zones 21&22**
Suitable for methane, coal dust, and other explosive gas/dust.

What Is an Explosion-Proof LED Strip Light?

Lighting in hazardous industrial areas must do more than just illuminate – it must prevent ignition, withstand harsh conditions, and provide long-term reliability. That's why explosion-proof LED strip lights are becoming a preferred lighting solution for Zones 1, 2, 21 & 22 environments, such as oil refineries, wastewater plants, coal mines, and chemical processing facilities.

- An explosion-proof LED strip light (also called an Ex LED strip) is a flexible lighting solution designed for hazardous areas where flammable gases, vapors, or dust may be present.
- These lights are engineered to ensure that no internal sparks, excessive heat, or electrical discharges can ignite the surrounding atmosphere, making them ideal for ATEX and IECEx certified locations.

Features



Eliminate Explosion Risks at the Source

The solid extruded pure silicone housing isolates the light source from any external ignition sources, eliminating potential hazards in advance and ensuring a safe working environment.



ATEX, IECEx & ETL Certified

Engineered to meet the highest standards for harsh industrial environments, including underground mines, oil extraction facilities and large warehouses.



Safe Power Supply

Adopting a safe low-voltage design of DC 24V / 48V, the system significantly reduces the risk of electric shock while maintaining high reliability. AC 36V / 48V / 110V / 220V versions are also available to meet specific project requirements.



100-Meter Cascading Application

Single-end power feeding supports a maximum length of 100 meters with uniform brightness from start to end. Ideal for long-distance applications such as tunnels and coal mines.



5-Year Warranty

We provide customization solutions with low minimum order quantities. Superior product quality ensures your full trust.



Applicable Environments

II 2G Ex mb op is IIC T4 Gb

Suitable for Zones 1 & 2 flammable gas hazardous areas, including high-risk gases like hydrogen and acetylene, with a maximum surface temperature of $\leq 135^{\circ}\text{C}$ (T4).

II 2D Ex mb op is IIIC T135°C Db

Suitable for Zone 21/22 explosive dust hazardous areas, covering conductive/metal dusts, with a maximum surface temperature of $\leq 135^{\circ}\text{C}$.

Applications



Heavy Industry
Oil & Gas



Automotive
Iron & Steel, Glass



Power Plants



Factories
Manufacturing Plants



Railways & Tunnels



Data Centers



Healthcare



Commercial Complexes
High-rise Buildings



Sports Complexes



Airports

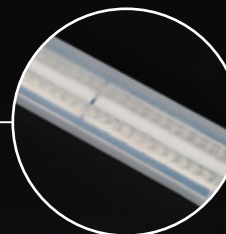
Injection Molded Plug

Industrial-grade cables with molded plugs prevent water ingress, achieving IP67 rating.



Dual Main Line Power Supply

3oz pure copper FPC + 2.0mm² pure copper wires. Dual main power lines with built-in constant current ICs. Supports uniform brightness up to 100m with excellent heat dissipation, longer lifespan and higher efficiency.



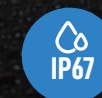
ESD Process

Anti-static, dust-proof and stain-resistant matte surface. Offers soft glare-free lighting, high light efficiency, comfortable hand feel and easy cleaning.



IK09 & IP67 (High Protection Rating)

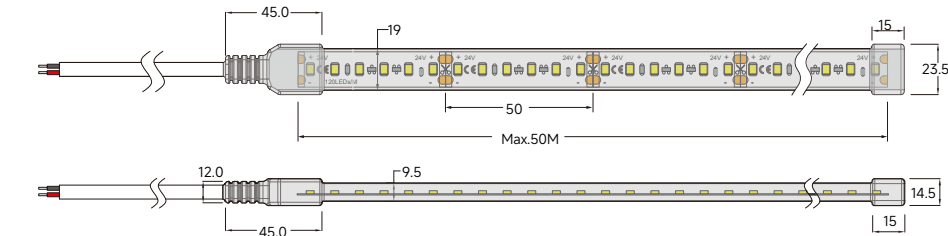
Pure silicone solid extruded housing separates the light source from external ignition sources. IK09 & IP67 rated for superior protection.



Specification

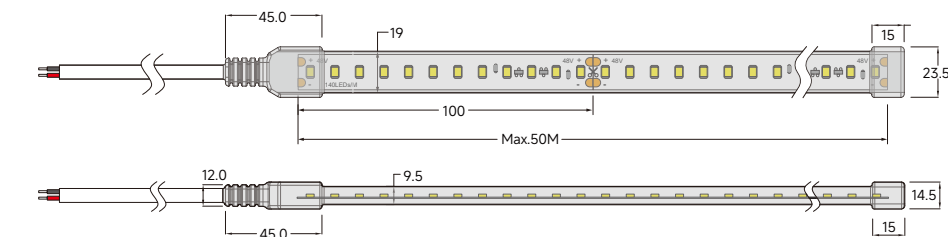
UEA67-1910EX-DC24V-120LEDs/M

Unit: mm



P/N	Color/CCT	LED Type	LEDs/M	FPCB (mm)	Power (W/M)	Luminous Flux (lm/M)	Efficiency (lm/W)	Max.Length (M)	Min. Cutting (mm)	Warranty (years)
UEA67-1910EX-DC24V	3000K/4000K/5500K/6500K	2835	120	12	10	1080	110	50	50	5

UEA67-1910EX-DC48V-140LEDs/M

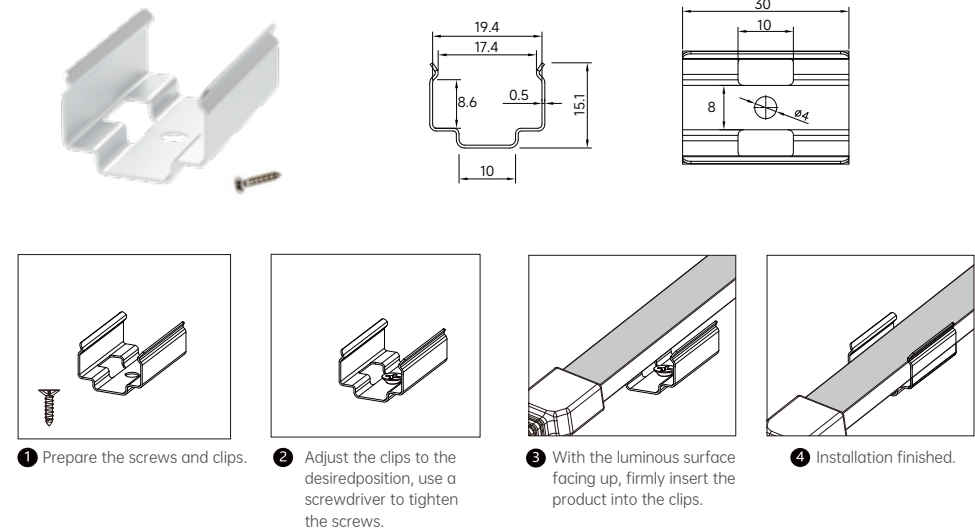


P/N	Color/CCT	LED Type	LEDs/M	FPCB (mm)	Power (W/M)	Luminous Flux (lm/M)	Efficiency (lm/W)	Max.Length (M)	Min. Cutting (mm)	Warranty (years)
UEA67-1910EX-DC48V	3000K/4000K/5500K/6500K	2835	140	12	8	1050	125	50	100	5

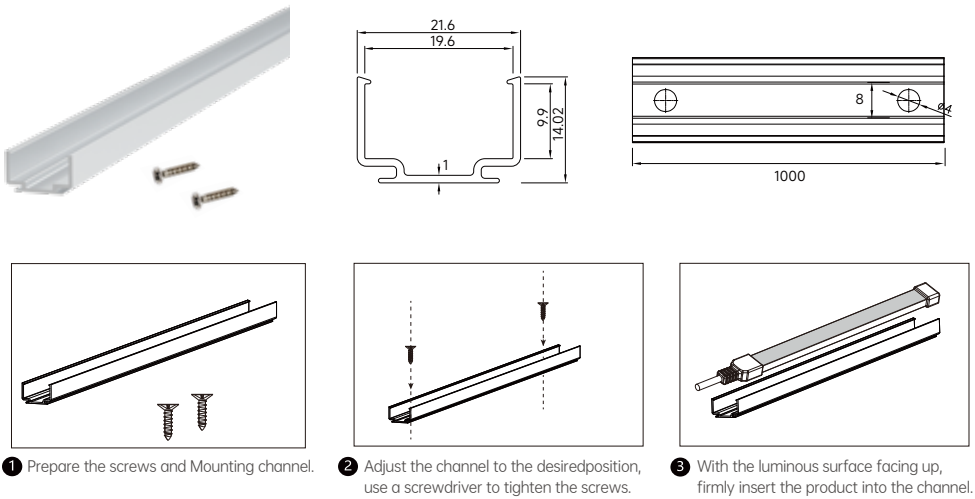
Mounting

Unit: mm

Mounting clip



Mounting channel



Applications



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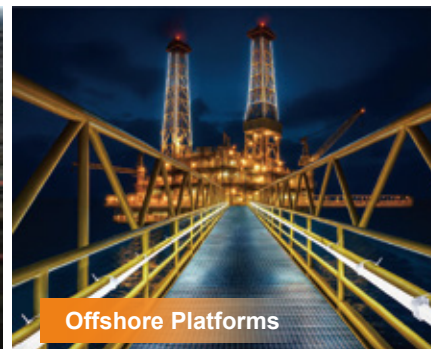
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Oil & Gas



Railways



Offshore Platforms



Mining



Industrial Factories



Tunnels