



Associated products



LXGD-120-25-110 — 100m

LXGD-144-25-110 — 150m

LXGD-72-50-110 — 200m

- Continuous high-performance operation in harsh tunnel and infrastructure environments with high lumen output.
- Configurable lengths with integrated quick connectors.
- Emergency backup options available.
- Flexible PVC housing for high resistance to weathering, moisture, and mechanical stress.
- Constructed with robust, industrial-grade materials designed to withstand demanding tunnel operating environments.
- Enhanced safety construction includes UL94 V-0 flame-retardant materials and available Low Smoke Zero Halogen (LSZH/LZOH) options.

The LXGD Series is a flexible LED strip luminaire engineered for industrial and infrastructure applications requiring continuous runs. The system utilises SMD LED packages delivering up to ~1250 lm/m at efficacies up to 111 lm/W, with a 120° photometric distribution and CRI ≥80, ensuring uniform illumination across extended lengths. The construction comprises a UL94 V-0 flame-retardant PVC extrusion with integrated multi-strand copper conductors to minimise resistive losses and voltage drop over runs up to 200m. Rated to IP65 and IK10, the luminaire is designed for mechanically demanding environments, with an operating temperature range of -10°C to +40°C. The LXGD Series is compliant with EN 60598 (luminaire safety), EN 55015 (EMC emissions), EN 61547 (EMC immunity), and EN 61000 (power quality), ensuring electrical safety, electromagnetic compatibility, and reliable operation. Emergency backup option available.

Hot plug up to 200m of robust lighting, fast, and efficient.

Case Study Project

As part of the HS2 programme, contractors required a safe, reliable and energy-efficient temporary lighting system for major construction areas including the Chiltern Tunnels, Bromford Tunnel and the Colne Valley Viaduct (the UK's longest rail bridge at 2.1 miles). These environments demand long-distance lighting runs, high uniformity, and robust performance under challenging conditions. LMX LED designed and delivered.

Review

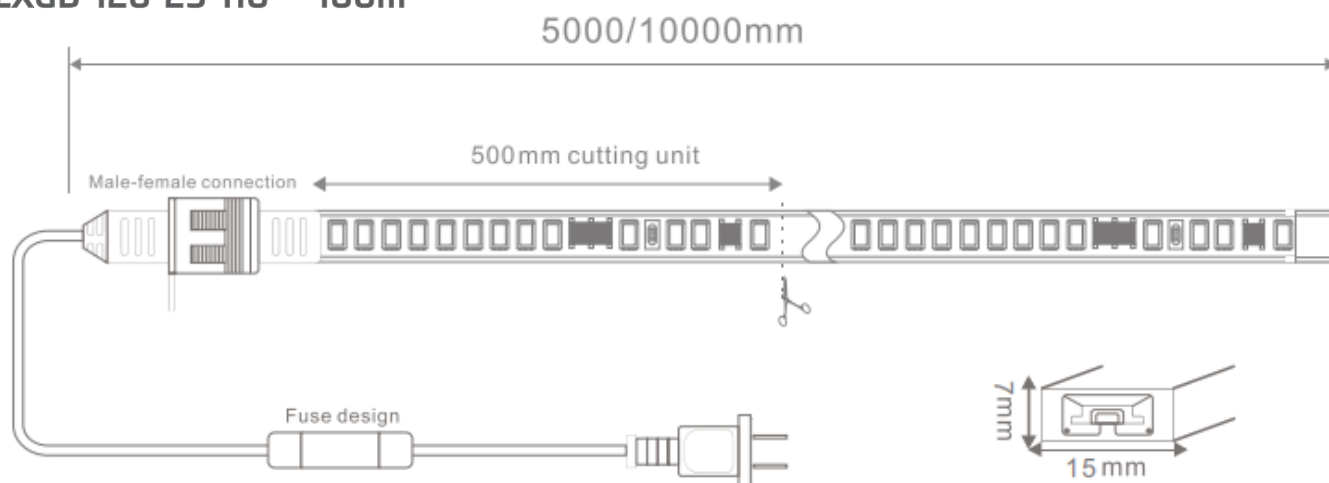
"LMX LED were instrumental in achieving our strict demands to control light pollution across the south portal in Denham for HS2, we also had numerous challenges in designing the lighting for our many buildings, thankfully LMXLED were on hand to make this process seamless. I will be using LMXLED in the future."

Mr. G Provan
Senior Electrical Project Manager HS2

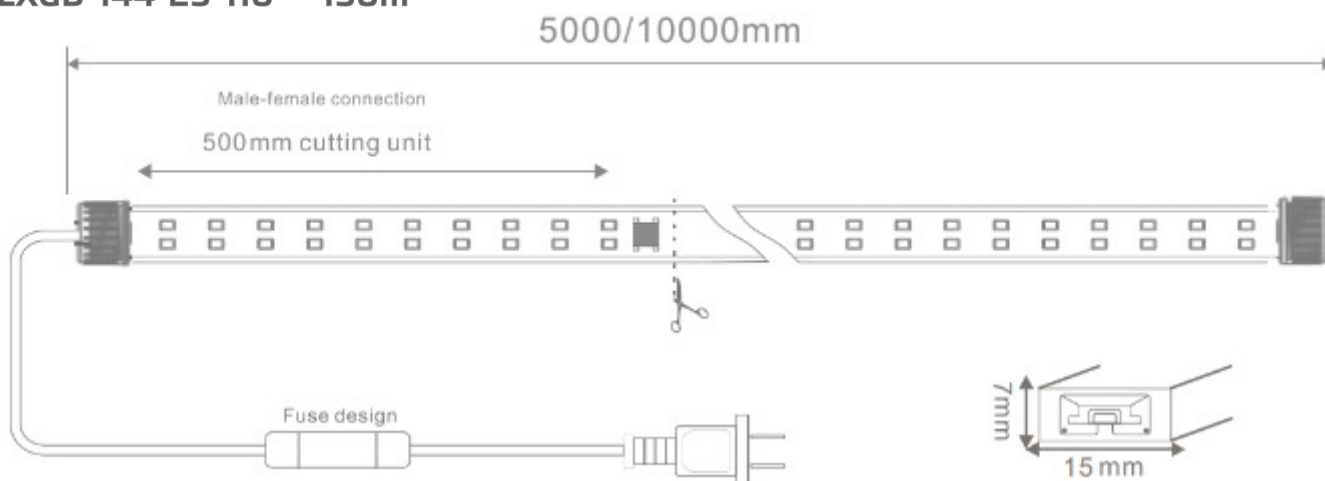
Data	LXGD-120-25-1106	LXGD-144-25-1106	LXGD-72-50-1104
Input Voltage	AC 110V	AC 110V	AC 110V
System Power	300W	200W	225W
Powe (W/m)	12 W/m	8 W/m	4.5 W/m
Power Factor	>0.9	>0.9	>0.9
Luminous Flux	1250 lm/m	700 lm/m	400-500 lm/m
Lumen/W	104 lm/W	87 lm/W	111 lm/W
Beam Angle	120°	120°	120°
CCT (K)	6000K	6000K	4000K
Colour Tolerance	3.9	3.9	2.6
CRI	>80	>80	>80
Flickert Level (PST LM)	≤1.0	≤1.0	≤1.0
Strip Length	25m	25m	50m
Max connectable length	100m	150m	200m
Dimensions	15 x 7mm	15 x 7mm	18 x 8mm
Housing	Clear PVC housing	Clear PVC housing	Clear PVC housing
Conductor	Copper	Copper	Copper
Weight	4.8 Kgs	5.2 Kgs	10.4 Kgs
Flammability (UL94)	VO fireproof	VO fireproof	VO fireproof
IP Rating	IP65	IP65	IP65
IK Rating	IK10	IK10	IK10
Ambient temperature	-10°C to +40°C	-10°C to +40°C	-10°C to +40°C
Incoming cable	1.5m H07RNF 2 x 1.5mm ² cable with CEE plug	1.5m H07RNF 2 x 1.5mm ² cable with CEE plug	1.5m H07RNF 2 x 1.5mm ² cable with CEE plug 10A fuse
LED lifetime (L70)	30,000 hours	30,000 hours	30,000 hours
Standards	CE, UKCA, RoHs, RCM, CB, D, EN 60598-1, EN 60598-2-20, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62471		

...or we can design this product to your exact specifications?

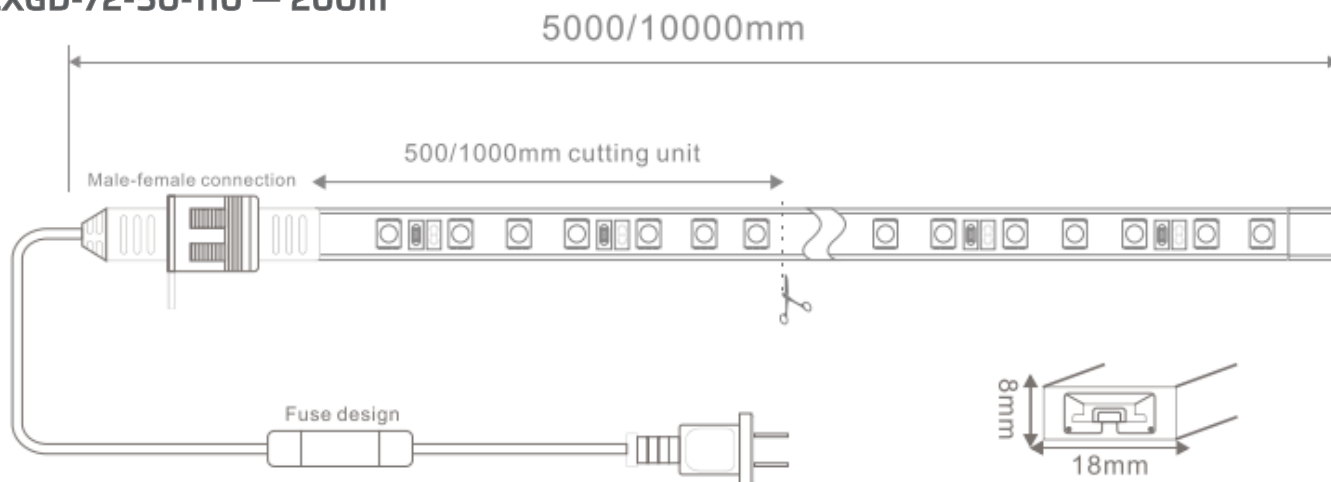
LXGD-120-25-110 — 100m



LXGD-144-25-110 — 150m



LXGD-72-50-110 — 200m



Data	LXGD01BU3HR
Input Voltage	AC 110V ~ 240V
Nominal Frequency	50/60Hz
Total Power Output	27 W
Emergency Power Output	DC70-250V 27W+/-5% (Constant watt type)
Battery Capacity	22.2V 5200mAh Li-ion Battery
Housing Material	ABS
Product Dimensions	175 x 175 x 105mm
Product Weight	1.93 Kg/PC
Input Cable	1.5 Meters H07RN-F 3G 1.5mm ² Black Cable (including CEE plug)
Output Cable	220mm H07RN-F 3G 1.5mm ² Black Cable (including CEE male & female connectors) 1250 lm/m
Operating Temperature	0°C — +50°C
Ambient Temperature	-5°C — +35°C
Charging Time	10-12 hrs
Emergency Working Time	3 hrs
System self-consumption	Battery self-consumption in emergency shutdown state <50uA

