

OPEN SOURCE

STELLAR

Flexible Design Multiple Applications

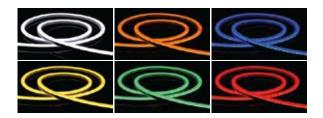
Introducing our high-quality, flexible LED silicone flex featuring unique co-extrusion technology. This innovative design combines exceptional flexibility with superior lighting performance, making it ideal for a wide variety of indoor and outdoor applications.

COLOUR









PRODUCT FEATURES







































CUSTOMIZATION



Available to customize the colour temperature from 2200K to 6500K Colour like R/G/B/W



Available to customize the cable. Standard length 0.6m (bare wire) 0.3m (with male/female connector



Available in CRI >90



Options for different factory finished injection mold connectors (direct, side, bottom entry)



Custom lengths of LED linear flex are available to suit your specific project requirements.



We can develop sections tailored to your specific project needs.

Note: Fixture manufactured to desired length at Factory & IP rated tested (Not field cuttable)

K-LiTE Stellar 16 - TV

The Stellar silicone co-extrusion flex is an advanced lighting solution designed for durability and performance. Offering exceptional UV resistance, chemical stability and abrasion resistance, this flexible luminaire is ideal for both indoor and outdoor applications. With an IP68 rating, it is fully protected against dust and water ingress, ensuring reliable use in demanding environments. The flexible design allows for easy vertical bending, delivering a uniform light output along its entire length. Additionally the Stellar flex can be configured to the precise length needed with small cutting increments, allowing for seamless and flexible installation in various settings.

Product Description

- · Ultra bright LED Silicone Top View
- · Anti-UV for outdoor use.
- Flexible vertical bending diameter of >200mm for easy of installation.
- · Available in 120° beam angle.
- Even light distribution & no dot spots.
- CRI (Ra):≥90
- Constant voltage non integral power supply
- · Low Voltage at 24Vdc assures safety.









Product Benefits

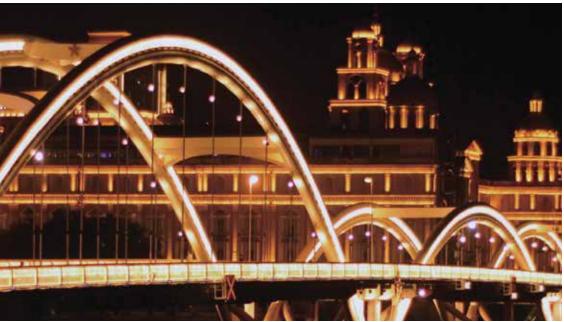
- · Dot free and absolutely homogeneous light emission surface.
- · Flexibility combined with high durability.
- · High luminous flux
- · High colour consistency

Areas of Application

- Signboard
- Logo
- · Accent Lighting
- Hospitality Industry
- Commercial & Business Centers
- · Residential & Educational premises



K-LiTE Stellar 16 - TV





Technical Specifications

General

ID : 23398 : ≥200 mm Minimum Bend Dia

Driver Non-Integral

Operating Voltage
Operating Temperature

Physical

Body

Mounting

: Silicone - Top Bend : SS Clamp

: -25°C to 45°C

: Constant Voltage

: 24Vdc

Light Source

CRI (Ra) : >90

LED Lifé Time : ≥50,000 Hours

Driver

Power Supply : Non - Integral

Optical Performance

Beam Angle :120°



Single Colour

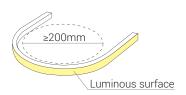
Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)
10W/m	3000K	540	54	50	5

Pixel RGBW - SPI

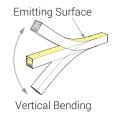
Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)	Pixel(PCS)
14.5W/m	RGBW	342	23.6	125	7	8

Pixel RGBW - DMX12

Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)	Pixel(PCS)
15W/m	RGBW	329	21.9	125	7	8

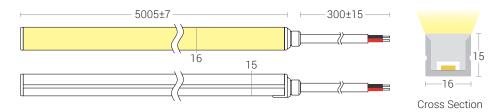


Min.Bending Diameter

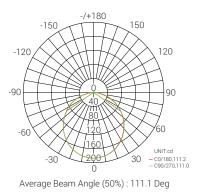


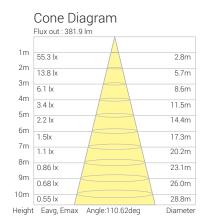
K-LiTE Stellar 16 - TV

Dimension (mm)





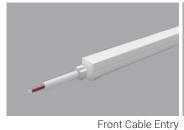




 $Note: The above date is based on 24V \ , 10W/M, single colour with 3000K colour temperature. The max run length of 10W/M is 10M. \\$

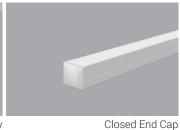
Accessories

Integral End Cap (IP67)



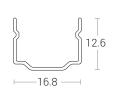






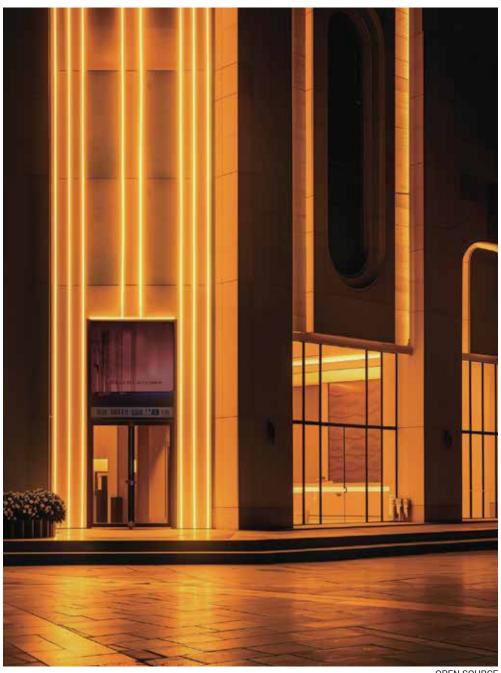
Mounting Accessories





Cable Details	OD: 6.0mm / Inner Core: 20AWG
Silicone Cable	
Waterproof Connector Silicone cable	M12 Male / Female Connector

APPLICATION



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K-LiTE Stellar 15 - SV

The Stellar silicone co-extrusion flex is an advanced lighting solution designed for durability and performance. Offering exceptional UV resistance, chemical stability and abrasion resistance, this flexible luminaire is ideal for both indoor and outdoor applications. With an IP67 rating, it is fully protected against dust and water ingress, ensuring reliable use in demanding environments. The flexible design allows for easy horizontal bending, delivering a uniform light output along its entire length. Additionally the Stellar flex can be configured to the precise length needed with small cutting increments, allowing for seamless and flexible installation in various settings.

Product Description

- · Ultra bright LED Silicone Side View
- · Anti-UV for outdoor use.
- Flexible horizontal bending diameter of >150mm for easy of installation.
- · Available in 120° beam angle.
- Even light distribution & no dot spots.
- CRI (Ra):>90
- · Constant voltage non integral power supply
- · Low Voltage at 24Vdc assures safety.









Product Benefits

- · Dot free and absolutely homogeneous light emission surface.
- · Flexibility combined with high durability.
- · High luminous flux
- · High colour consistency

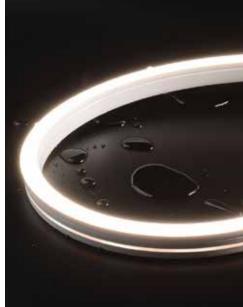
Areas of Application

- Signboard
- Logo
- · Accent Lighting
- · Hospitality Industry
- Commercial & Business Centers



K-LiTE Stellar 15 - SV





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Technical Specifications

General

ID : 23397 Minimum Bend Dia :>150 mm Driver Non-Integral : Constant Voltage

Operating Voltage : 24Vdc
Operating Temperature : -25°C to 45°C

Physical

Body : Silicone - Side Bend

Mounting : SS Clamp

Light Source

CRI (Ra) :>90

LED Life Time : ≥50,000 Hours

Driver

Power Supply : Non - Integral

Optical Performance

Beam Angle : 120°



Single Colour

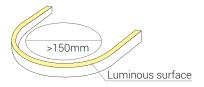
Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)
10W/m	3000K	310	31.0	50	5

Pixel RGBW - SPI

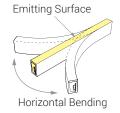
Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)	Pixel(PCS)
14.5W/m	RGBW	218	15.0	125	7	8

Pixel RGBW - DMX12

Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)	Pixel(PCS)
15W/m	RGBW	211	14.1	125	7	8

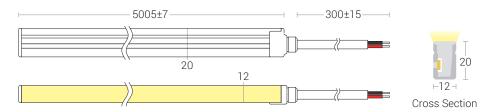


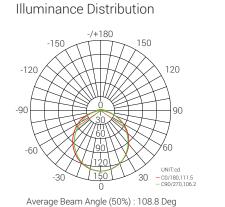
Min.Bending Diameter

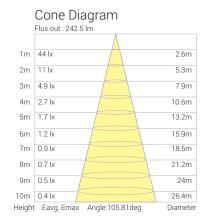


K-LiTE Stellar 15 - SV

Dimension (mm)



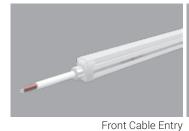




Note: The above date is based on 24V,10W/M, single colour with 3000K colour temperature. The max run length of 10W/M is 10M.

Accessories

Integral End Cap (IP67)







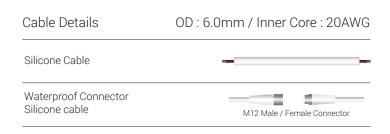


Closed End Cap

Mounting Accessories







K-LiTE Stellar 10 - SV





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Technical Specifications

General : 23366 : 100 mm CRI (Ra) ID

Minimum Bend Dia Driver Non-Integral : Constant Voltage

Operating Voltage
Operating Temperature : 24Vdc : -25°C to 45°C

Physical

Body Mounting : Silicone - Side Bend

: SS Clamp

Light Source

:>90

LED Lifé Time : ≥50,000 Hours

Driver

Power Supply : Non - Integral

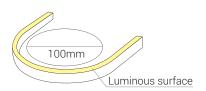
Optical Performance

Beam Angle :120°

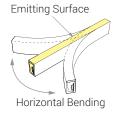


Single Colour

Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)
10W/m	3000K	620	62	35.7	5

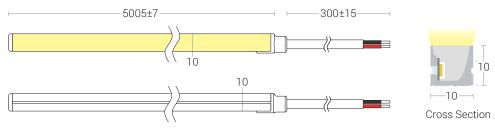


Min.Bending Diameter

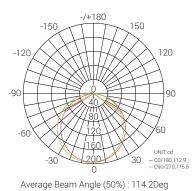


K-LiTE Stellar 10 - SV

Dimension (mm)









Note: The above date is based on 24V ,10W/M, single colour with 3000K colour temperature. The max run length of 10W/M is 10M.

Accessories

Integral End Cap (IP67)









Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End Cap

Mounting Accessories





Cable Details	OD: 6.0mm / Inner Core: 20AWG
Silicone Cable	
Waterproof Connector Silicone cable	M12 Male / Female Connector

<u>APPLICATION</u>



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K-LiTE Stellar 6





Technical Specifications

General

ID : 22798

Driver Non-Integral Operating Voltage Operating Temperature : Constant Voltage

: 24Vdc : -25°C to 45°C

Physical

Body : Silicone Mounting : Clamp

Light Source

CRI (Ra) :>90

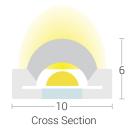
LED Lifé Time : ≥50,000 Hours

Driver

Power Supply : Non - Integral

Optical Performance

Beam Angle :120°





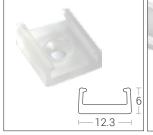




Single Colour

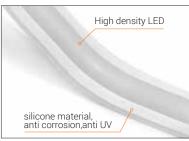
Wattage	CCT	Lumen (LM/M)	Efficiency(LM/W)	Unit length(mm)	Max. Run length(M)
10W/m	3000K	720	72	25	5
10W/m	4000K	760	76	25	5

Mounting Accessories



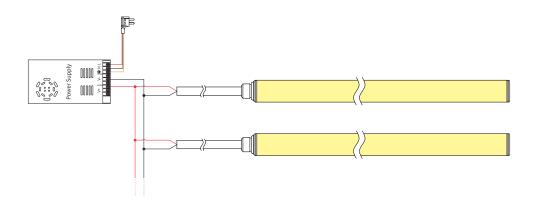




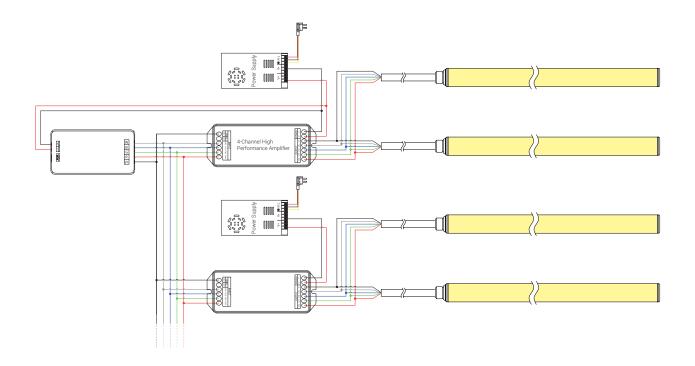


K-LiTE Connecting Diagram

Single Colour Connecting Diagram



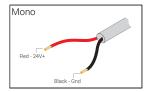
RGBW Connecting Diagram

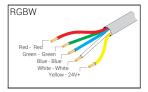


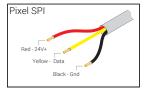
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Electrical Connections

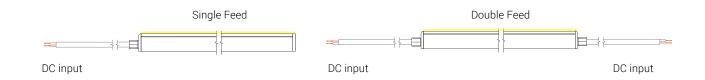
- · Unused lights should be sealed in their packaging bags to prevent prolonged exposure to air or moisture.
- Use a 24V dc isolated constant voltage power supply (ripple voltage<5%). Other power supplies may cause damage or safety hazards.
- In practical use, reserve a 20% power margin to ensure stable operation of the power supply..
- · Power supply should be connected by a professional. Do not connect while live to avoid electric shock.
- Ensure the power supply voltage matches the light's voltage. Observe correct polarity reversing positive and negative may damage the product.
- When using multiple power supplies, do not connect their positive terminals in parallel. Long-term operation this way may cause instability or damage.
- · Exceeding the specified application length may cause overload, overheating, and uneven brightness.
- During installation, do not scratch, twist, or bend the light irregularly, as this may cause irreparable damage.
- To ensure the light's longevity and reliability, avoid excessive bending, which can damage the product.
- To protect your eyes, avoid staring directly at the glowing surface for a long time.
- Installation, disassembly, and maintenance are prohibited for non-professionals.
- Do not use acidic or alkaline adhesives (e.g., glass glue) to fix the light.
- IP67 products are not suitable for long-term water immersion. IP68 products are factory-customized; cutting or modifying them may compromise the IP68 protection level.







Lead Type



Note:

Fixture manufactured to desired length with multiples of 100mm and factory IP rated tested (not field cuttable).

The given data are typical values. Due to tolerances of the production process and the electrical components, photometric values and electrical power can vary up to $\pm 10\%$.

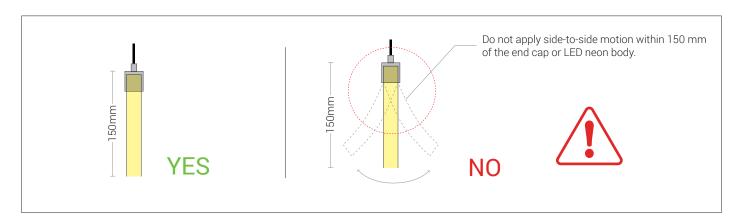
In case of IP67 products, tolerances in the colour temperature can occur.

Silicone Neon Strip - Installation

K-LiTE

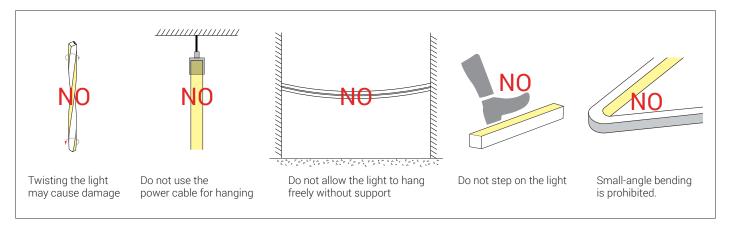
Introduction

Silicone Neon Strip lights are bendable and highly durable, making them ideal for various indoor and outdoor applications. This protective casing safeguards against UV damage, is waterproof, and offers flame and solvent resistance, ensuring long-lasting performance in any environment.

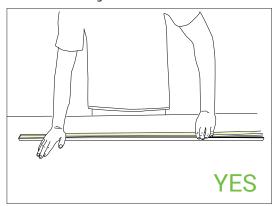


General DO NOTS

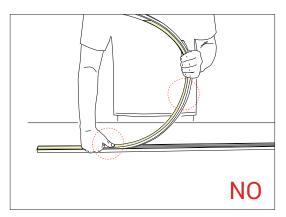
The images illustrate unacceptable practices for intended installations and alternative fixing methods. Please refer to them to ensure compliance and safety during installation.



General Mounting



- Use your palm to apply gentle, even pressure to insert the LED strip slowly into the groove. At the same time, use your right hand to straighten the strip above the groove.
- Try to keep the LED strip flat during the installation process.

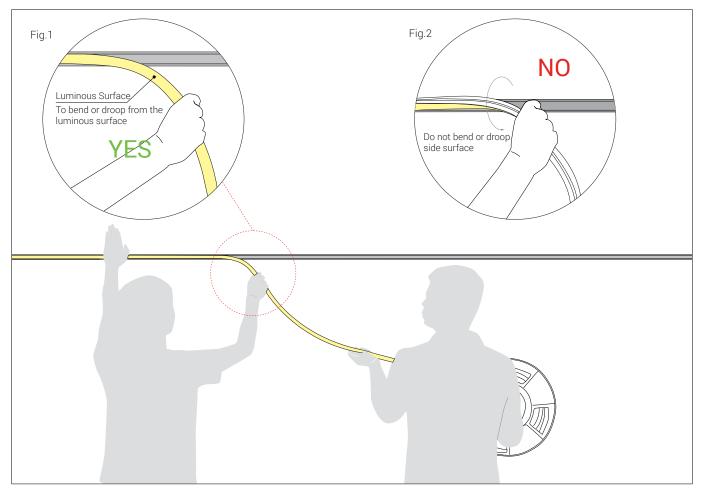


- Do not press the LED strip with a single finger, as this may damage its internal components.
- Avoid bending the LED strip with an excessively large arc during installation.

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Typical Installation Precautions

(For lights exceeding 2 meters in length, installation must be performed by two persons to ensure safety and prevent damage.)



Installer:

- Use the palm of your left hand to slowly insert the light into the slot. With your right hand, straighten the light so it gently follows the direction of your hand. See Fig. 1.
- $\bullet\,$ Do not bend or let the side surface droop. See Fig. 2.

Assistant:

• Work with the installer to lift the light reel, then slowly hand the light to the installer. Do not pull or twist the light during installation."



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