



Firefly FloppyFlex LED Neon Specification

CLASSIC SIZE
NEON AND FLAT PROFILES



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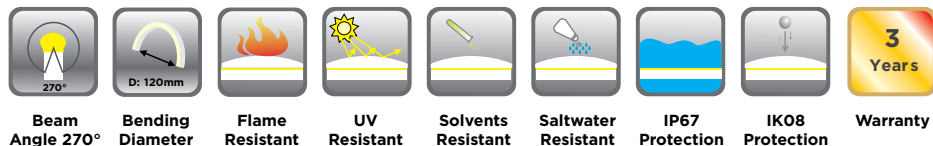
LED NEON

REV 1.0

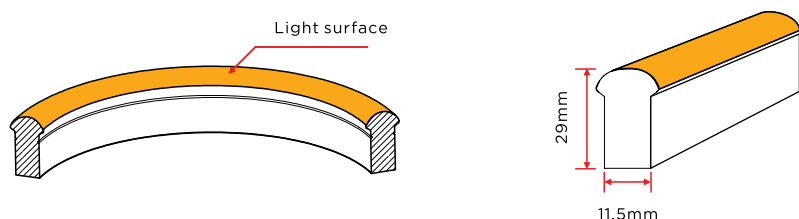
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1. Neon Profile Specifications & Parameters



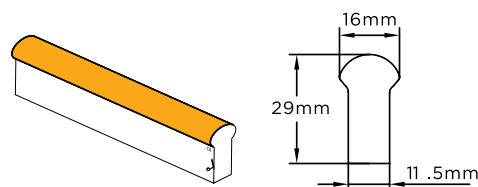
1.1 Neon Profile Dimensions of Light



NOTE: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

1.2 Neon Profile Basic Parameters

1. Dimension: 11.5mm horizontally x 29mm vertically
2. Min. bend diameter: 120mm
3. Protection rate: Standard with quick connectors and single injection molding IP67. Double injection molding IP68
4. IP67 protection rate : Protected against dust and submersion in water (up to 1m below surface for up to 30 minutes).
5. IP68 protection rate: Protected against dust and submersion in water (long term submersion up to 1m below surface).
6. The product IP rate is ultimately in line with properly applied IP rated connectors.
7. Easy to use with a range of accessories for joining, terminating, mounting and powering.
8. Long lifespan: 5 years.
9. Environmental Working Temperature: -20°C - 45°C (High Voltage: -20°C - 35°C).
10. Environmental Installation Temperature: 0°C - 45°C (High Voltage: -20°C - 35°C).



NOTE: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

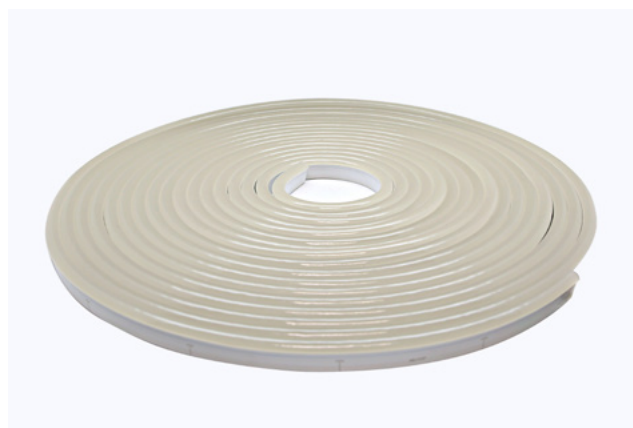
Light Type: Neon Profile

Light Color	Appearance of Cover*	LED Qty/mtr	Working Voltage	Rated Power/m	LED Spacing	Min.Cutting Length	Max.Running Length*
RGB	WM	60LEDs	D24CV	12W	16.67mm	100mm(6LEDs)	10m for single end feed 20m for double ends feed
Red single colour full colour jacket	WM	60LEDs	D24CV	7.2W	16.67mm	166.7mm(10LEDs)	15m for single end feed 30m for double ends feed
Blue single colour full colour jacket	WM	60LEDs	D24CV	12W	16.67mm	100mm(6LEDs)	10m for single end feed 20m for double ends feed
Dynamic WW+W (2500K to 5000K)	WM	144LEDs	D24CV	12W	13.89mm	83.3mm(12LEDs)	10m for single end feed 20m for double ends feed
RGB Pixel - 8 per Metre	WM	56LEDs	D24CV	12W	17.86mm	125mm(7LEDs)	10m for single end feed* 20m for double ends feed
RGBWW(2700K) Pixel - 8 per Metre	WM	56LEDs	D24CV	15W	17.86mm	125mm(7LEDs)	5m for single end feed* 10m for double ends feed

NOTE: Appearance of Cover*
WM=White PVC Housing1+Milky Light-emitting Surface2

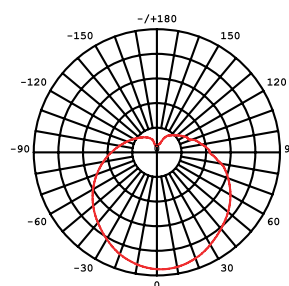
NOTE: Max.Running Length*
The max continuous lengths of pixel LED Light is defined under the situation of static full loading.

1.3 Neon Profile Technical Parameters

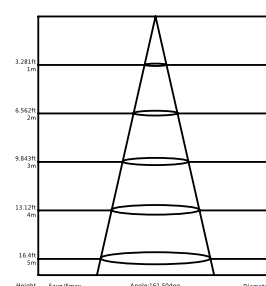


1.4 Neon Profile Optical Parameters

Candle Power Distribution



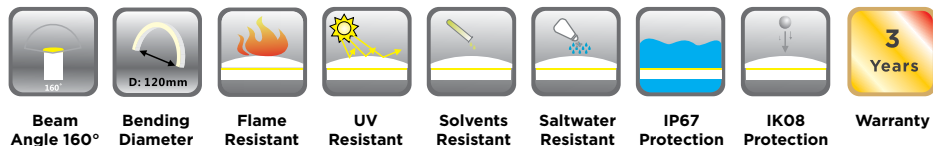
Illuminance Characteristics



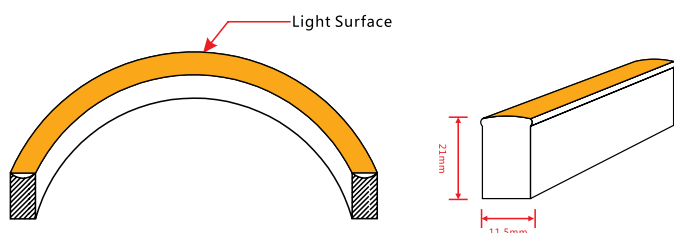
1.5 Neon Profile Reliability Test of Light

TESTING ITEM	PERFORMANCE	STANDARD/REFERENCE VALUE/DESCRIPTION
PHOTOMETRIC TESTING	Spectrum Analysis	IES LM 79 (lumen, CCT, CRI, XY, SDCM, wave length)
	Photometric Distribution	IES LM 79(lumen intensity distribution & Lux diagram)
	Lumen Maintenance & Life Time	IES LM84 & IES TM28
TEMPERATURE RISE TESTING	Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
MECHANICS & PHYSICS TESTING	Bending Test	Manufacturer-defined, 500 cycles
	Swing Test	UL2388, >750 cycles
	Tensile Test	Manufacturer-defined, > the weight of light in maximum connection length with both ends feed
	Twist Test	Manufacturer-defined, >200 cycles
	Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	IK07 IK08	IEC62262
	WEATHERING TESTING	Swimming Pool Water Immersion Test
Sea Water Immersion Test		IEC60598-1, Salinity 4%
Salt Spray Test		IEC68-2-11
Outdoor Exposure		Manufacturer-defined
ENVIROMENT TESTING	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG 154 ISO 4892-3 UVA@340nm
	IPX5 IPX6 IPX7 IPX8	IEC60529
ENDURANCE & THERMAL TEST LAB	Temperature Shock Test	Manufacturer-defined -40°C - 60°C (typical temperature range)
	Constant Temperature Test	Manufacturer-defined 70°C (typical temperature)

2. Flat Profile Specifications & Parameters



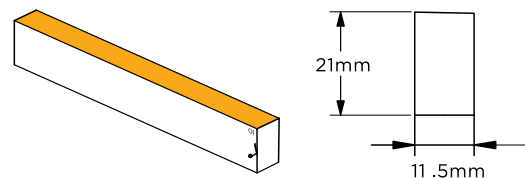
2.1 Flat Profile Dimensions of Light



NOTE: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

2.2 Flat Profile Basic Parameters

1. Dimension: 11.5mm horizontally x 29mm vertically
2. Min. bend diameter: 120mm
3. Protection rate: Standard with quick connectors and single injection molding IP67. Double injection molding IP68
4. IP67 protection rate : Protected against dust and submersion in water (up to 1m below surface for up to 30 minutes).
5. IP68 protection rate: Protected against dust and submersion in water (long term submersion up to 1m below surface).
6. The product IP rate is ultimately in line with properly applied IP rated connectors. Connector termination required after cutting to achieve appropriate IP Rating.
7. Easy to use, with a range of accessories for joining, terminating, mounting&powering.
8. Long lifetime: 5 years.
9. Environmental Working Temperature: $-20^{\circ}\text{C}\sim 45^{\circ}\text{C}$ (High Voltage: $-20^{\circ}\text{C}\sim 35^{\circ}\text{C}$).
10. Environmental Installation Temperature: $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$ (High Voltage: $0^{\circ}\text{C}\sim 35^{\circ}\text{C}$).



NOTE: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

Light Type: Flat Profile

Light Color	Appearance of Cover*	LED Qty/mtr	Working Voltage	Rated Power/m	LED Spacing	Min.Cutting Length	Max.Running Length
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Red single colour full colour jacket	WM	60LEDs	D24CV	7.2W	16.67mm	166.7mm(10LEDs)	15m for single end feed 30m for double ends feed
Blue single colour full colour jacket	WM	60LEDs	D24CV	12W	16.67mm	100mm(6LEDs)	10m for single end feed 20m for double ends feed
Dynamic WW+W (2500K to 5000K)	WM	144LEDs	D24CV	12W	13.89mm	83.3mm(12LEDs)	10m for single end feed 20m for double ends feed
RGB Pixel - 8 per Metre	WM	56LEDs	D24CV	12W	17.86mm	125mm(7LEDs)	10m for single end feed 20m for double ends feed
RGBWW(2700K) Pixel - 8 per Metre	WM	56LEDs	D24CV	15W	17.86mm	125mm(7LEDs)	5m for single end feed 10m for double ends feed

NOTE: Appearance of Cover*
WM=White PVC Housing1+Milky Light-emitting Surface2

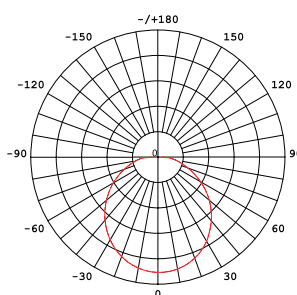
NOTE:Max.Running Length*
The max continuous lengths of pixel LED Light is defined under the situation of static full loading.

2.3 Flat Profile Technical Parameters

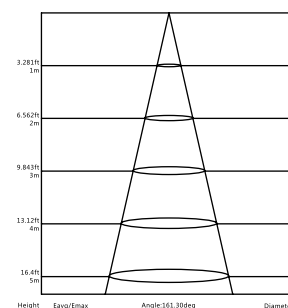


2.4 Flat Profile Optical Parameters

Candle power distribution



Illuminance Characteristics



2.5 Flat Profile Reliability Test of Light

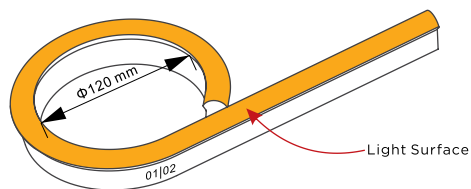
TESTING ITEM	PERFORMANCE	STANDARD/REFERENCE VALUE/DESCRIPTION
PHOTOMETRIC TESTING	Spectrum Analysis	IES LM 79 (lumen, CCT, CRI, XY, SDCM, wave length)
	Photometric Distribution	IES LM 79(lumen intensity distribution & Lux diagram)
	Lumen Maintenance & Life Time	IES LM84 & IES TM28
TEMPERATURE RISE TESTING	Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
MECHANICS & PHYSICS TESTING	Bending Test	Manufacturer-defined, 500 cycles
	Swing Test	UL2388, >750 cycles
	Tensile Test	Manufacturer-defined, > the weight of light in maximum connection length with both ends feed
	Twist Test	Manufacturer-defined, >200 cycles
	Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	IK07 IK08	IEC62262
	WEATHERING TESTING	Swimming Pool Water Immersion Test
Sea Water Immersion Test		IEC60598-1, Salinity 4%
Salt Spray Test		IEC68-2-11
Outdoor Exposure		Manufacturer-defined
ENVIROMENT TESTING	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG 154 ISO 4892-3 UVA@340nm
	IPX5 IPX6 IPX7 IPX8	IEC60529
ENDURANCE & THERMAL TEST LAB	Temperature Shock Test	Manufacturer-defined -40°C -60°C (typical temperature range)
	Constant Temperature Test	Manufacturer-defined 70°C (typical temperature)

3. Neon Profile Functions & Features

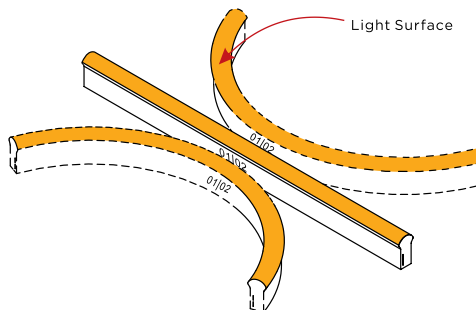
3.1 Neon Profile Product Features

1. High quality SMD chips, Nichia and Epistar.
2. Dimmable or DMX 512, DALI, 1-10V controllable, RGB color changing.
3. UV & flame resistant construction (PVC).
4. High colour consistency & smooth illumination with no point source visible.
5. Domed profile 270 degrees.
6. High lumen output and IP rating (IP67).
7. The product IP rate is ultimately in line with properly applied IP rated connectors.
8. Ultra flexible, bending diameter of 120mm.
9. Easy installation and assembly with DIY accessories for joining and terminating.
10. Environmentally friendly & energy efficient.
11. Automated production, high reliability & long warranty.
12. 5 years life span.

3.2 Neon Profile Minimum Bend Diameter



The light can only be bent laterally (opposite bend along to light surface).



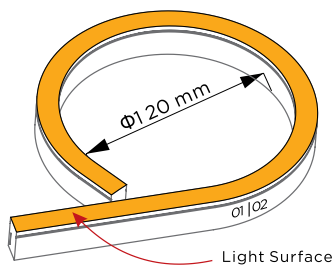
Do not bend smaller than allowed minimum bend diameter.

4. Flat Profile Functions & Features

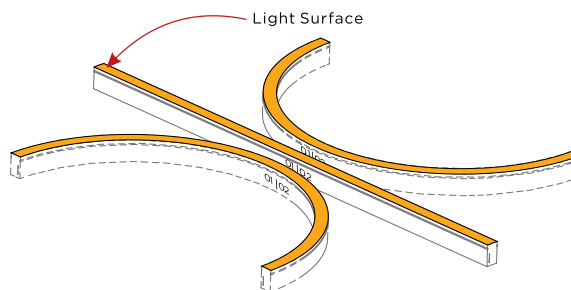
4.1 Flat Profile Product Features

1. High quality SMD chips, Nichia and Epistar.
2. Dimmable or DMX 512, DALI, 1-10V controllable, RGB color changing.
3. UV & flame resistant construction (PVC).
4. High colour consistency & smooth illumination with no point source visible.
5. Flat profile 160 degrees.
6. High lumen output and IP rating (IP67).
7. The product IP rate is ultimately in line with properly applied IP rated connectors.
8. Ultra flexible, bending diameter of 120mm.
9. Easy installation and assembly with DIY accessories for joining and terminating.
10. Environmentally friendly & energy efficient.
11. Automated production, high reliability & long warranty.
12. 5 years life span.

4.2 Flat Profile Bend Diameter



The light can only be bent laterally (opposite bend along to light surface).

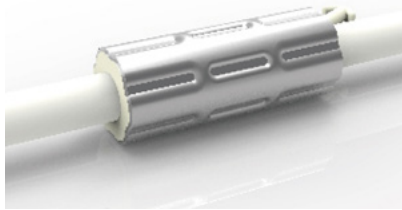


Do not bend smaller than allowed minimum bend diameter.

5. Neon Profile Connectors

5.1 Anti-wicking Ferrule

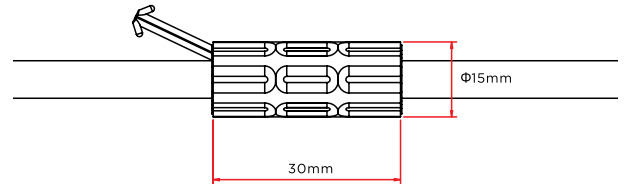
Note: Unless otherwise stated, the tolerance is $\pm 0.5\text{mm}$



Anti-wicking Ferrule

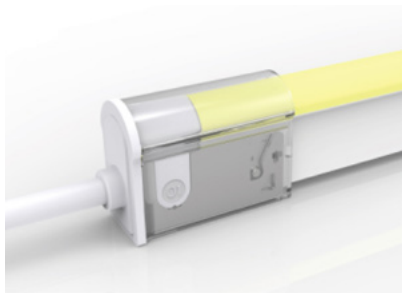
The anti-wicking ferrule is located at 115mm ($\pm 5\text{mm}$ tolerance) from the connector on the cable.

For protection against water ingress from inside the connector lead cable and 1 metre extension.



5.2 Neon Profile Snap Connector IP67

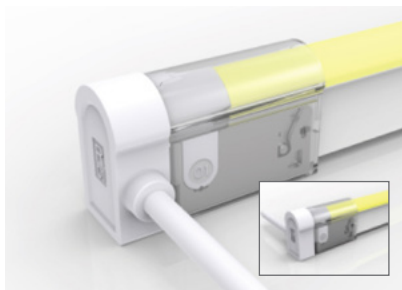
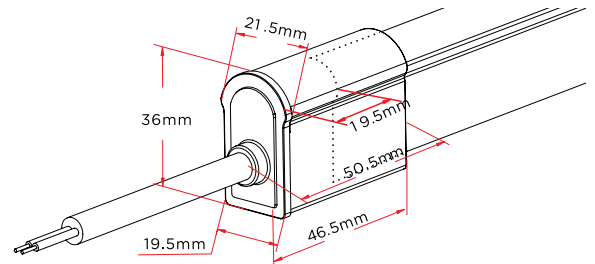
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Snap Front Connector

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

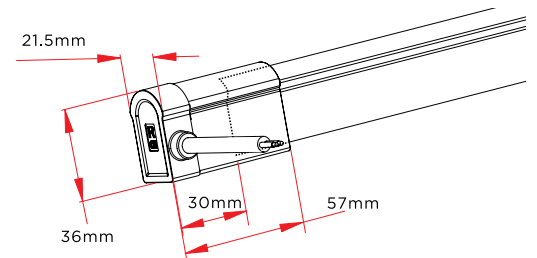
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1



Snap Front Connector (side right/left)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

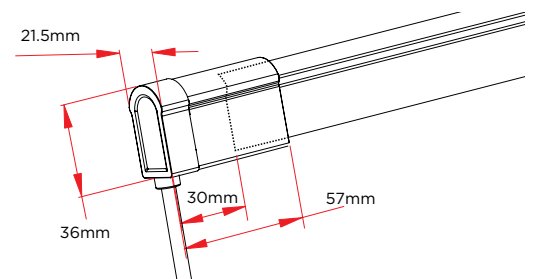
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1

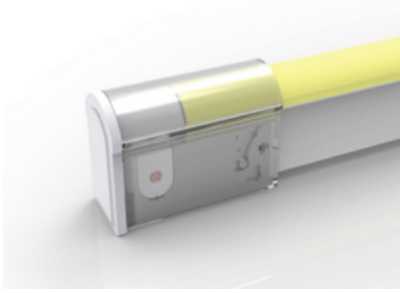


Snap Front Connector(bottom)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

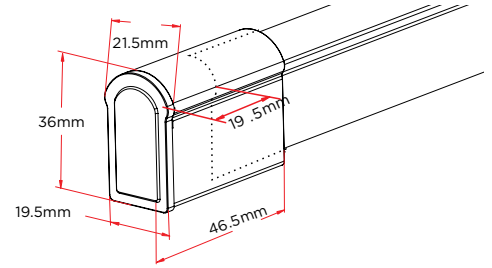
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1





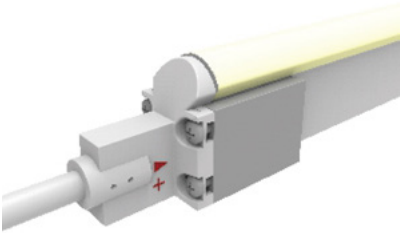
Snap End Cap
Termination protection of the light.
IP67. DIY connector.

- Tail plug x 1
- Silicone gasket x 1
- U steel plate x 1
- Anti-skidding clip x 1
- PC Cover x 1



5.3 Neon Profile Screw Connector IP67

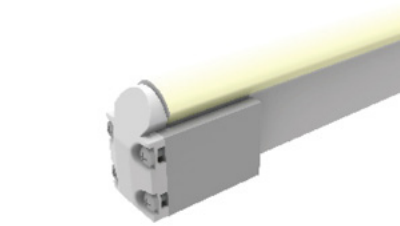
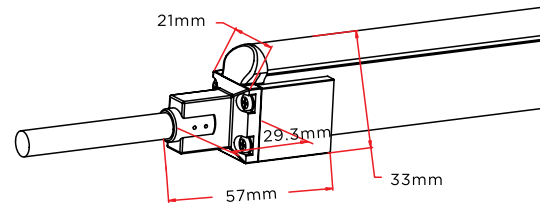
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Screw Front Connector (top end)

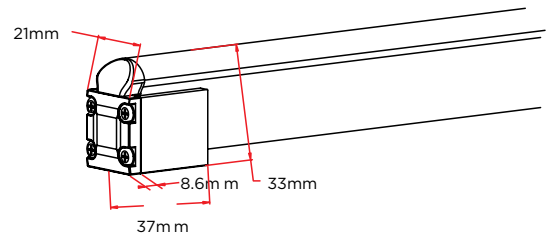
Connects light to power supply.
IP67 DIY connector. Cable length available 1m.

- Feed connector x 1
- Silicone gasket x 1
- Aluminum mounting piece x 1
- Anti-skidding clip x 1
- Screw x 4



Screw End Cap
Termination protection of the light.
IP67. DIY connector.

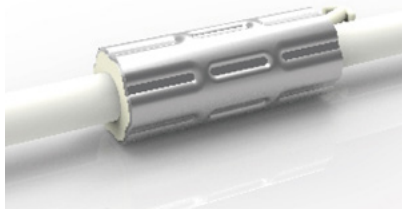
- Tail plug x 1
- Silicone gasket x 1
- Aluminum mounting piece x 1
- Anti-skidding clip x 1
- Screw x 4



6. Flat Profile Connectors

6.1 Anti-wicking Ferrule

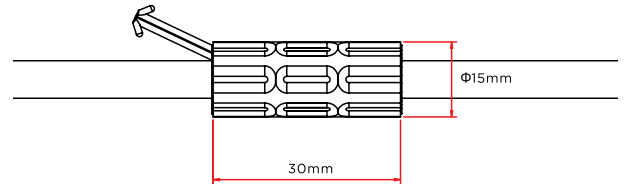
Note: Unless otherwise stated, the tolerance is $\pm 0.5\text{mm}$



Anti-wicking Ferrule

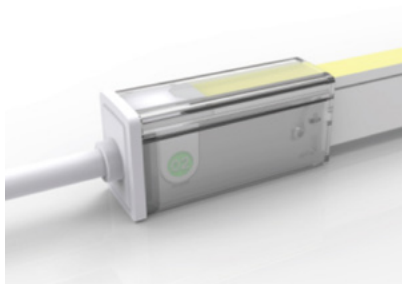
The anti-wicking ferrule is located at 115mm ($\pm 5\text{mm}$ tolerance) from the connector on the cable.

For protection against water ingress from inside the connector lead cable and 1 metre extension.



6.2 Flat Profile Snap Connector IP67

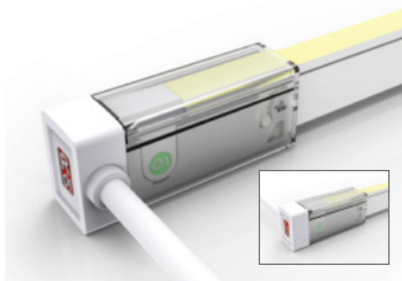
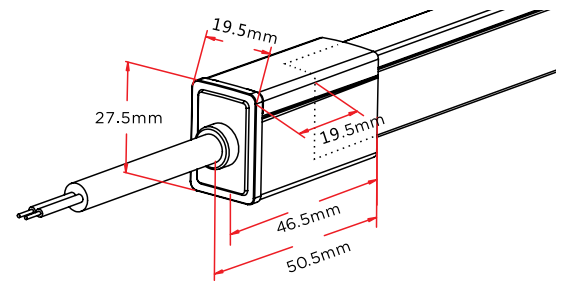
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Snap Front Connector

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

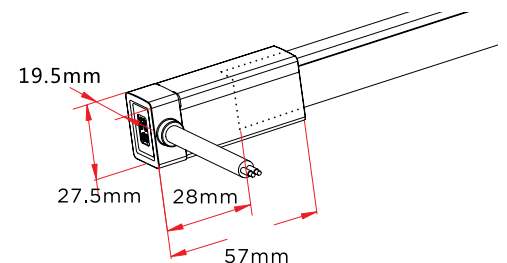
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1



Snap Front Connector (side right/left)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

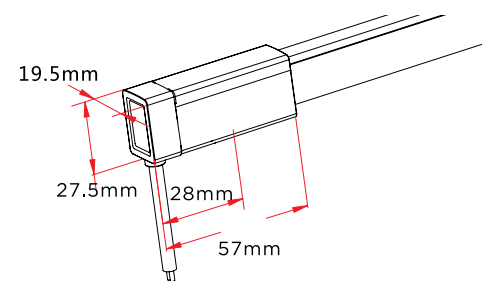
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1

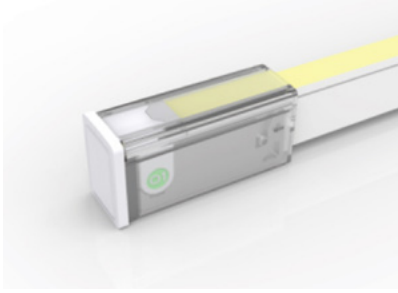


Snap Front Connector(bottom)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m

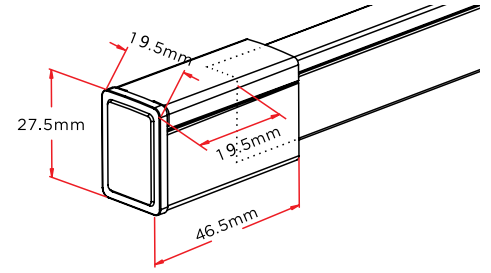
Feed connector x 1
Silicone gasket x 1
U steel plate x 1
Anti-skidding clip x 1
PC Cover x 1





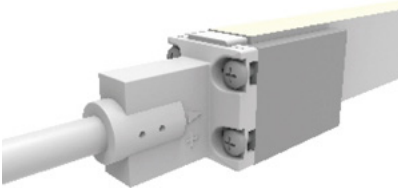
Snap End Cap
Termination protection of the light.
IP67. DIY connector.

- Tail plug x 1
- Silicone gasket x 1
- U steel plate x 1
- Anti-skidding clip x 1
- PC Cover x 1



6.3 Flat Profile Screw Connector IP67

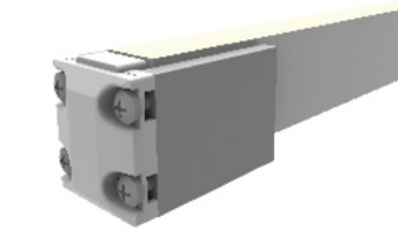
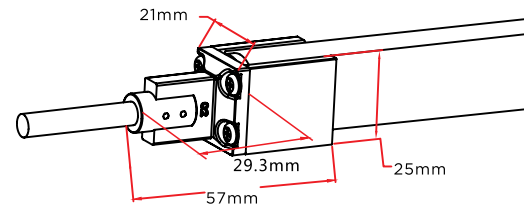
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Screw Front Connector (top end)

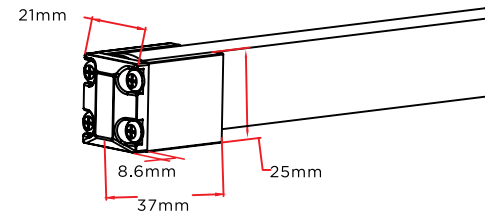
Connects light to power supply.
IP67 DIY connector. Cable length available in 1m.

- Feed connector x 1
- Silicone gasket x 1
- Aluminum mounting piece x 1
- Anti-skidding clip x 1
- Screw x 4



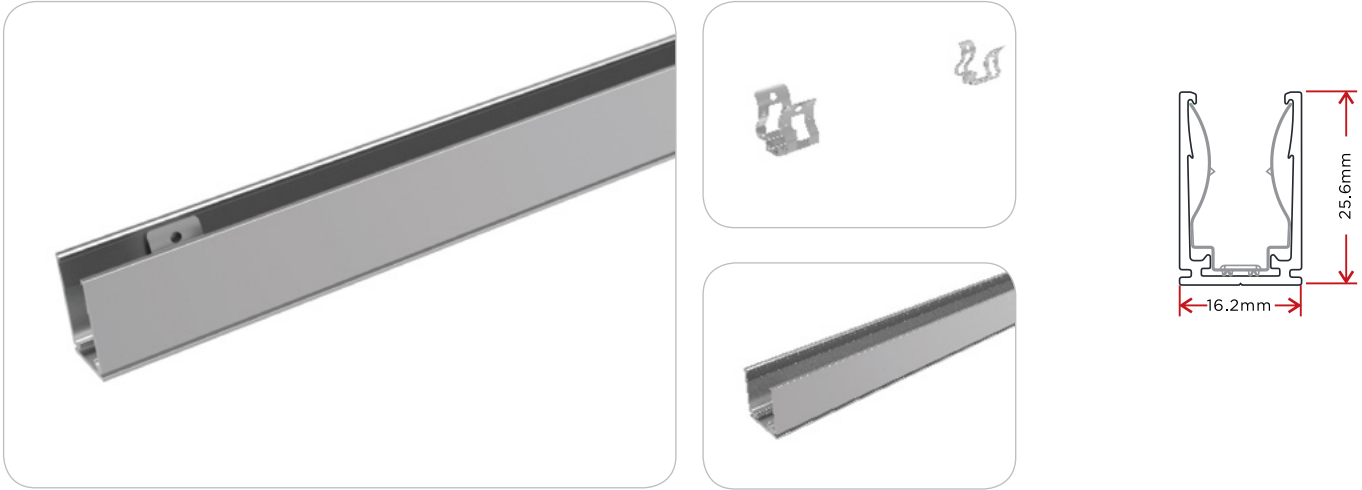
Screw End Cap
Termination protection of the light.
IP67. DIY connector.

- Tail plug x 1
- Silicone gasket x 1
- Aluminum mounting piece x 1
- Anti-skidding clip x 1
- Screw x 4



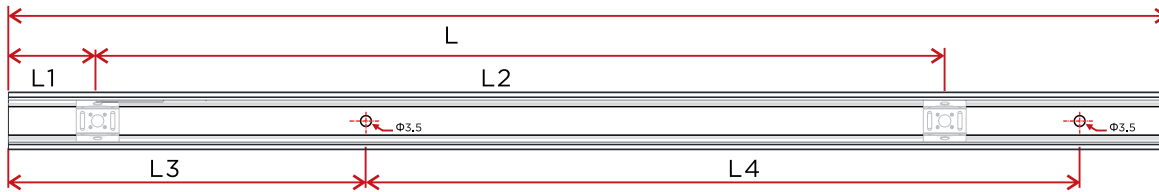
7. Mounting Profiles

7.1 Self Locking Aluminium Profile (spring loaded clips)



Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$

- Available in Powder Coated Black or Aluminium (Black is rust resistant)
- Spring Loaded



Model	W x H(mm)	Standard Length(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	Hole Screw(mm)	Hole Number	Clip Number
Classic Size	16.2 x 25.6	35	17.5	/	5	25	$\Phi 3.5$	2	1
		225	50	200	$\Phi 3.5$	3	3		
		1000	25	237.5	100	200	$\Phi 3.5$	5	5
		2000	25	243.8	100	200	$\Phi 3.5$	10	9

8. Custom Orders

Note: All custom orders have a minimum order quantity.

8.1 Neon Profile Snap Connector IP67

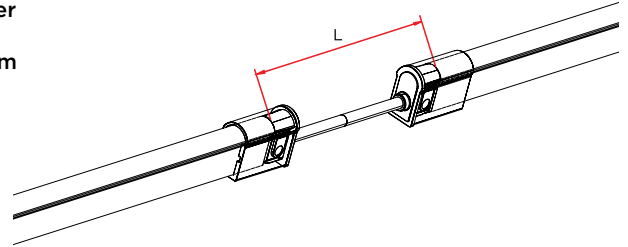
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Snap Jumper

Connects two pieces of lights together with a flexible cable. IP67 DIY connector. Cable length available in 1m

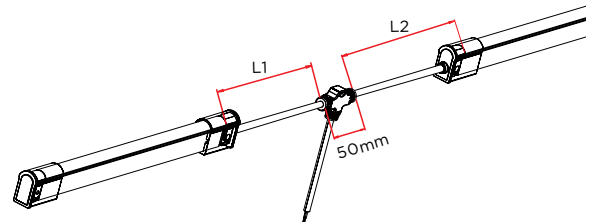
- Double-end feed connector x 1
- Silicone gasket x 2
- U steel plate x 2
- Anti-skidding clip x 2
- PC Cover x 2



Snap Power T-feed

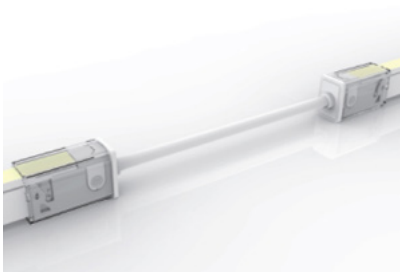
Connects two pieces of lights together with a T joint, energized from middle. IP67 DIY connector. L1 and L2 available in 0.3m.

- T joint x 1
- Silicone gasket x 2
- U steel plate x 2
- Anti-skidding clip x 2
- PC Cover x 2



8.2 Flat Profile Snap Connector IP67

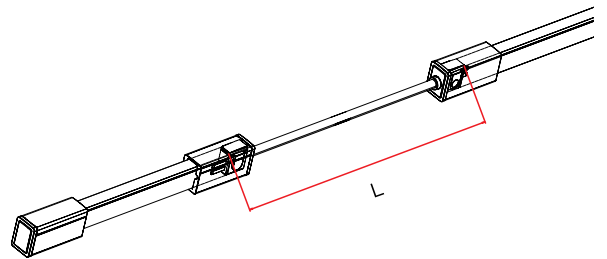
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Snap Jumper

Connects two pieces of lights together with a flexible cable. IP67 DIY connector. Cable length available in 1m

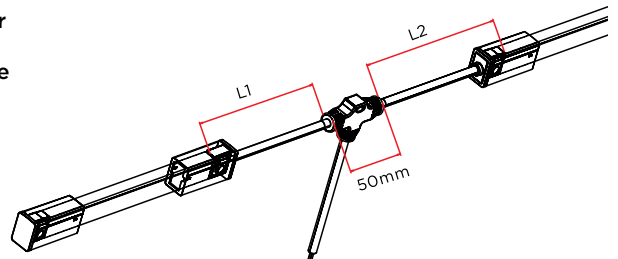
- Double-end feed connector x 1
- Silicone gasket x 2
- U steel plate x 2
- Anti-skidding clip x 2
- PC Cover x 2



Snap Power T-feed

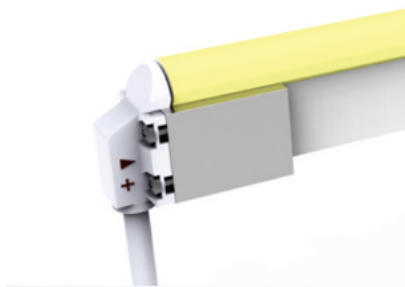
Connects two pieces of lights together with a T joint, energized from middle. IP67 DIY connector. L1 and L2 available in 0.3m.

- T joint x 1
- Silicone gasket x 2
- U steel plate x 2
- Anti-skidding clip x 2
- PC Cover x 2



8.3 Neon Profile Screw Connector IP67

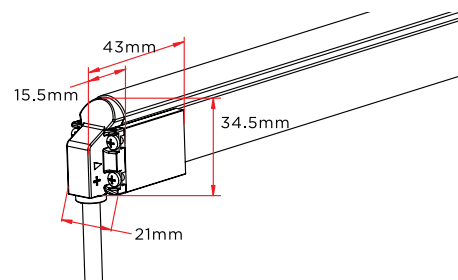
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Screw Front Connector (bottom)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m.

Feed connector x 1
Silicone gasket x 1
Aluminum mounting piece x 1
Anti-skidding clip x 1
Screw x 4

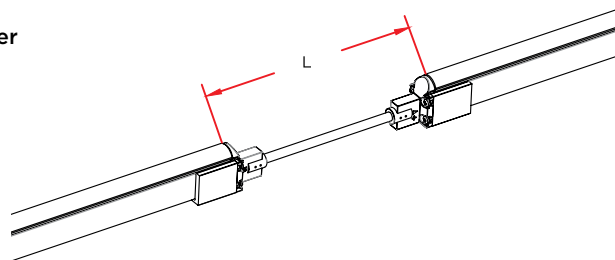


Screw Jumper

Connects two pieces of lights together with a flexible cable. IP67 DIY connector.

L available in 0.3m, 1m and 3m.

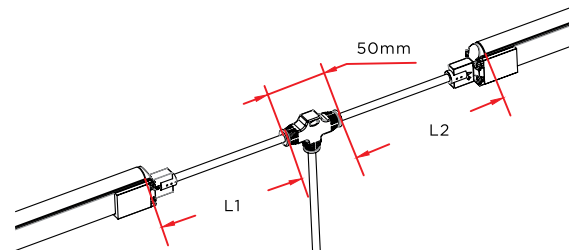
Double-end feed connector x 1
Silicone gasket x 2
Aluminum mounting piece x 2
Anti-skidding clip x 2
Screw x 8



Screw Power T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP67 DIY connector. L1 and L2 available in 0.3m.

T joint x 1
Silicone gasket x 2
Aluminum mounting piece x 2
Anti-skidding clip x 2
Screw x 8



8.4 Flat Profile Screw Connector IP67

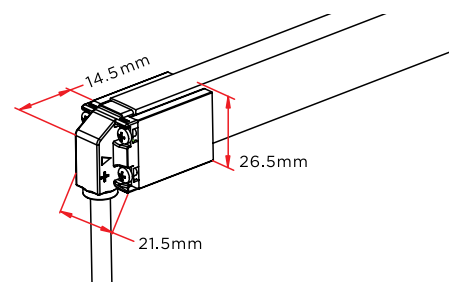
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



Screw Front Connector (bottom)

Connects light to power supply. IP67 DIY connector. Cable length available in 1m.

Feed connector x 1
Silicone gasket x 1
Aluminum mounting piece x 1
Anti-skidding clip x 1
Screw x 4

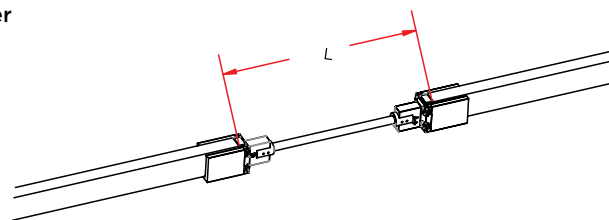


Screw Jumper

Connects two pieces of lights together with a flexible cable. IP67 DIY connector.

L available in 0.3m, 1m and 3m.

Double-end feed connector x 1
Silicone gasket x 2
Aluminum mounting piece x 2
Anti-skidding clip x 2
Screw x 8

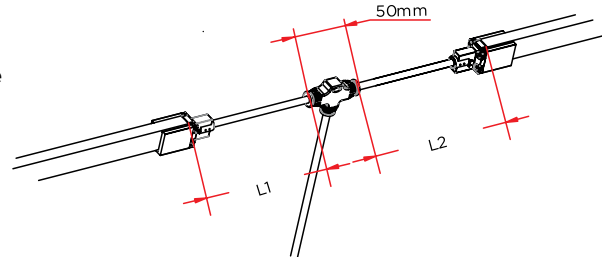




Screw Power T-feed

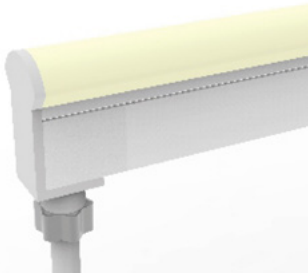
Connects two pieces of lights together with a T joint, energized from middle. IP67 DIY connector. L1 and L2 available in 0.3m.

- T joint x 1
- Silicone gasket x 2
- Aluminum mounting piece x 2
- Anti-skidding clip x 2
- Screw x 8



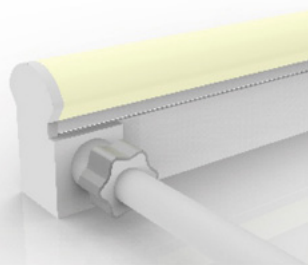
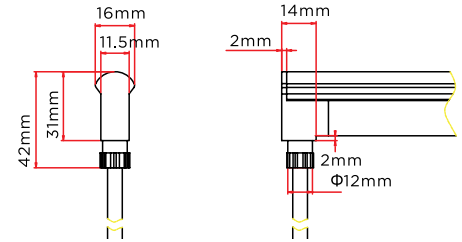
8.5 Neon Profile Injection-moulded Connector IP67

Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



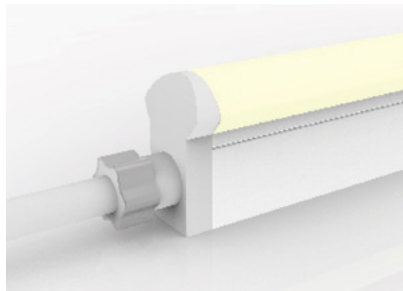
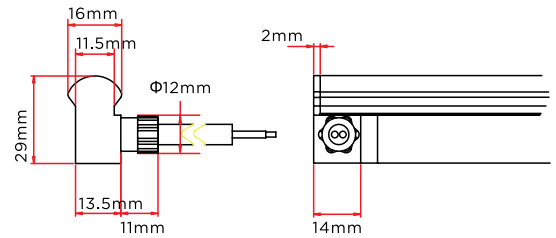
Injection-moulded Front Connector (bottom)

Connects light to power supply with pre-installed bottom feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m



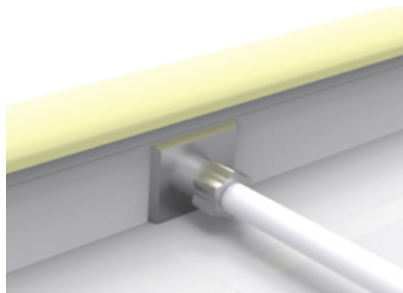
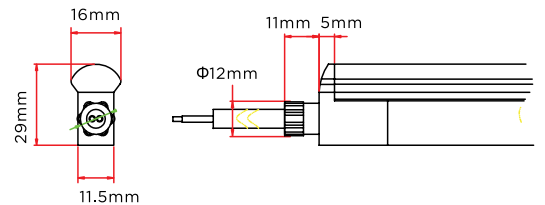
Injection-moulded Front Connector (side)

Connects light to power supply with pre-installed side feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



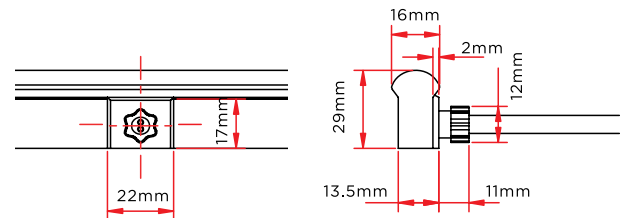
Injection-moulded Front Connector (top end)

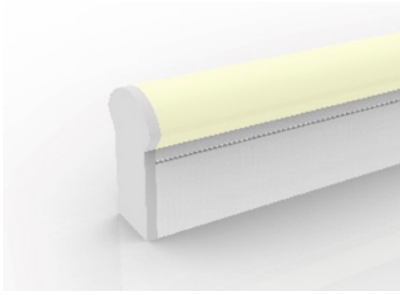
Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



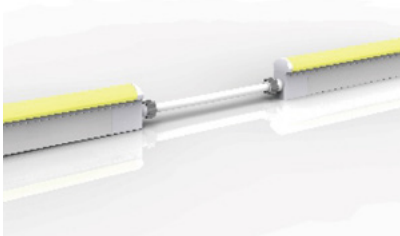
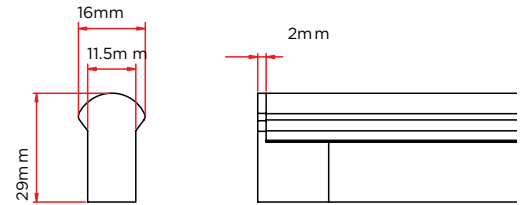
Injection-moulded Middle Feed Connector

Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.

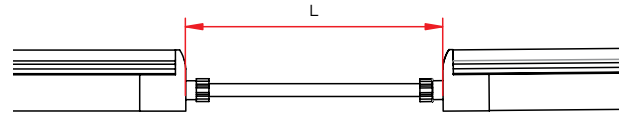




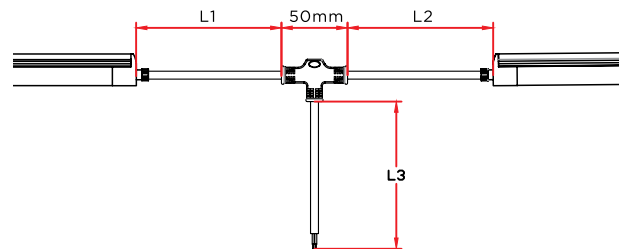
Injection-moulded End Cap
Pre-installed termination protection of the light, IP67.



Injection-moulded Jumper
Connects two pieces of lights together with a flexible cable. IP67 Injection-moulded connector. L available in 0.3-1m.
Maximum 8 Jumpers in 20m
Maximum 4 Jumpers in 10m



Injection-moulded T-feed
Connects two pieces of lights together with a T joint, energized from middle. IP67 Injection-moulded connector. L1 and L2 available in 0.15-0.5m. L3 available in 0.3-3m.
Maximum 8 T-feeds in 20m
Maximum 4 T-feeds in 10m

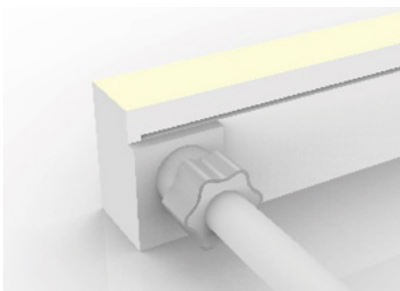
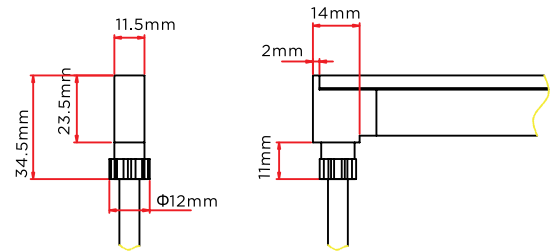


8.6 Flat Profile Injection-moulded Connector IP67

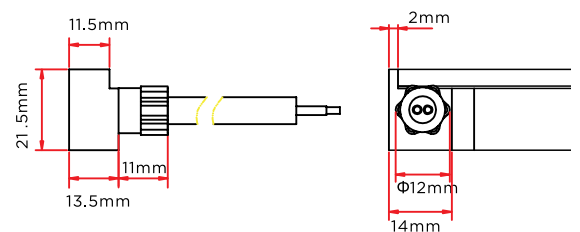
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$

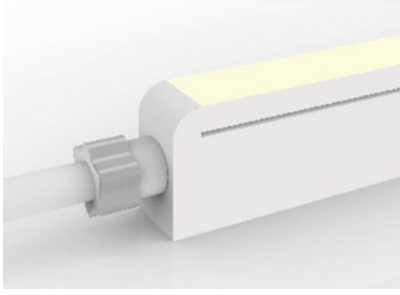


Injection-moulded Front Connector (bottom)
Connects light to power supply with pre-installed bottom feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m



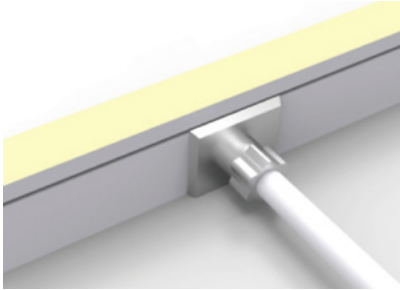
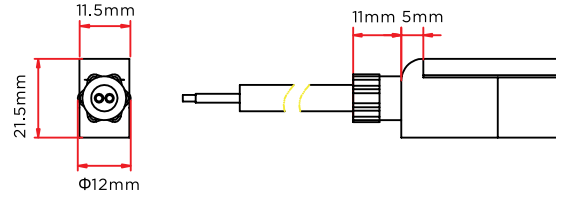
Injection-moulded Front Connector (side)
Connects light to power supply with pre-installed side feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.





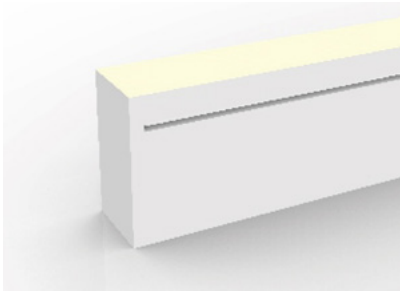
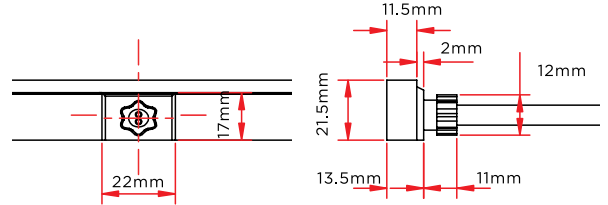
Injection-moulded Front Connector (top end)

Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



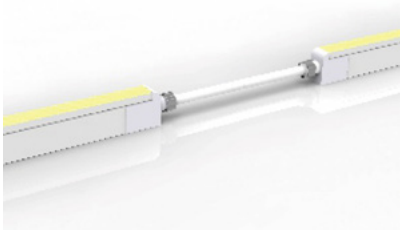
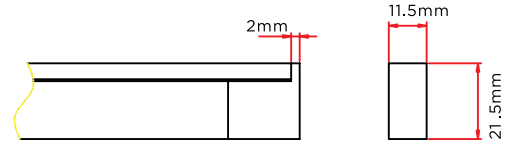
Injection-moulded Middle Feed Connector

Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



Injection-moulded End Cap

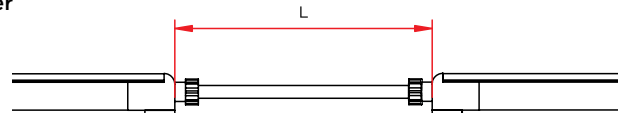
Pre-installed termination protection of the light, IP67.



Injection-moulded Jumper

Connects two pieces of lights together with a flexible cable. IP67 Injection-moulded connector. L available in 0.3-1m.

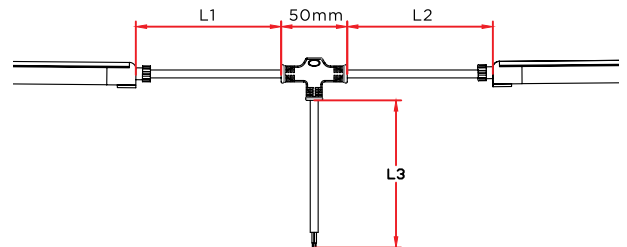
Maximum 8 Jumpers in 20m
Maximum 4 Jumpers in 10m



Injection-moulded T-feed

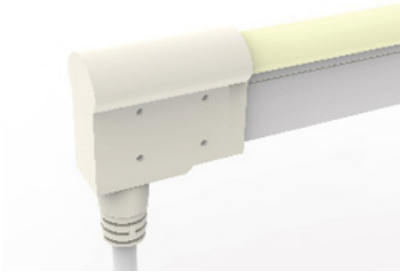
Connects two pieces of lights together with a T joint, energized from middle. IP67 Injection-moulded connector. L1 and L2 available in 0.15-0.5m. L3 available in 0.3-3m.

Maximum 8 T-feeds in 20m
Maximum 4 T-feeds in 10m

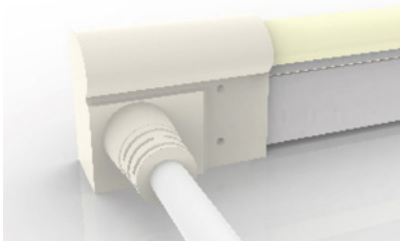
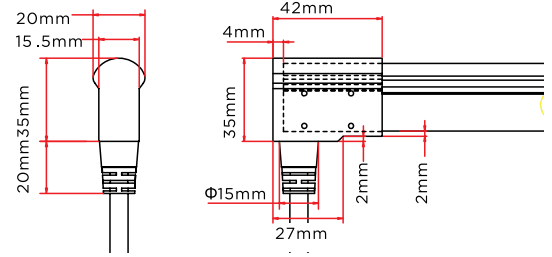


8.7 Neon Profile Dual Injection-moulded Connector IP68

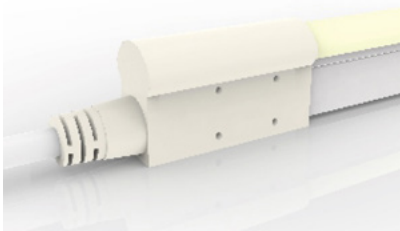
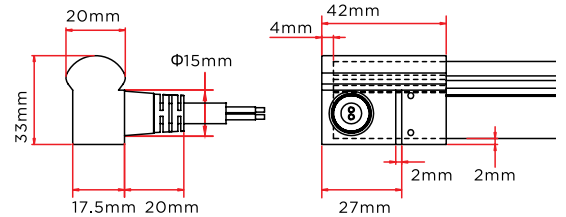
Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



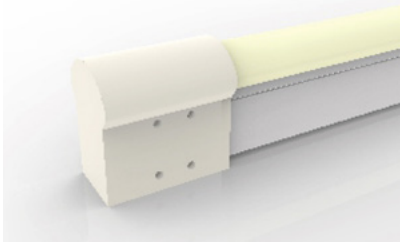
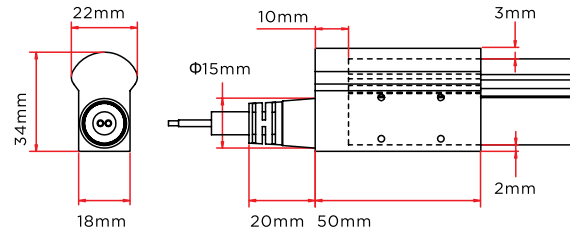
Dual Injection-moulded Front Connector (bottom)
Connects light to power supply with pre-installed bottom feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



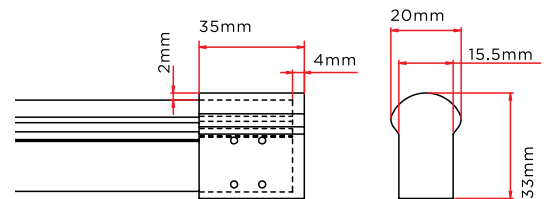
Dual Injection-moulded Front Connector (side)
Connects light to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



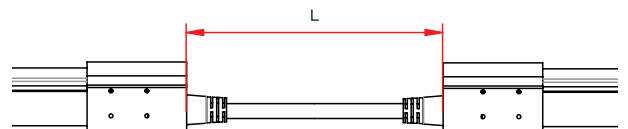
Dual Injection-moulded Front Connector (top end)
Connects light to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



Dual Injection-moulded End Cap
Pre-installed termination protection of the light, IP68.



Dual Injection-moulded Jumper
Connects two pieces of lights together with a flexible cable. IP68 Dual Injection-moulded connector. L available in 0.3-1m.
Maximum 8 Jumpers in 20m
Maximum 4 Jumpers in 10m

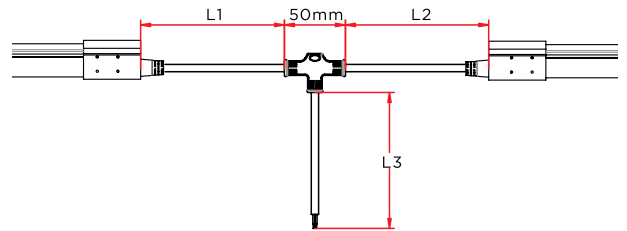




Dual Injection-moulded T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP68 Dual Injection-moulded connector. L1 and L2 available in 0.15-0.5m. L3 available in 0.3-3m.

Maximum 8 T-feeds in 20m
Maximum 4 T-feeds in 10m



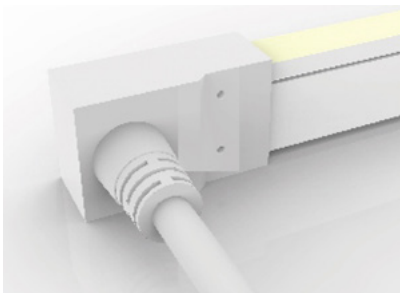
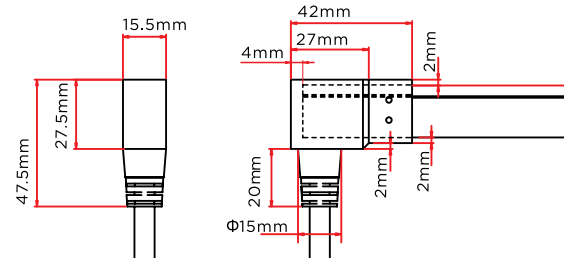
8.8 Flat Profile Dual Injection-moulded Connector IP68

Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$



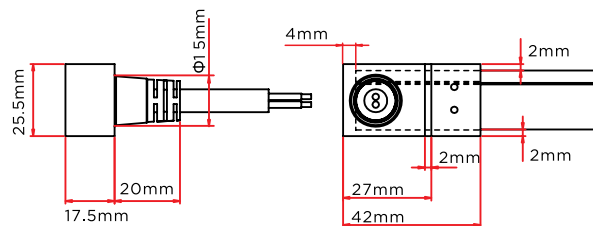
Dual Injection-moulded Front Connector (bottom)

Connects light to power supply with pre-installed bottom feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



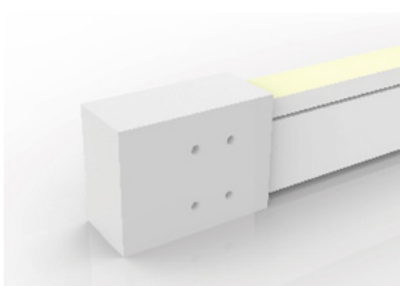
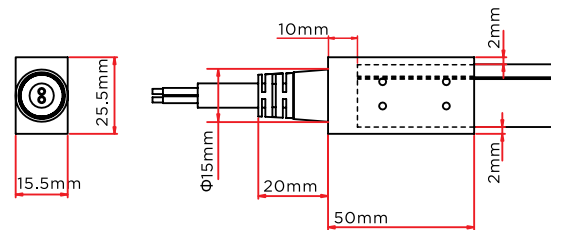
Dual Injection-moulded Front Connector (side)

Connects light to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.

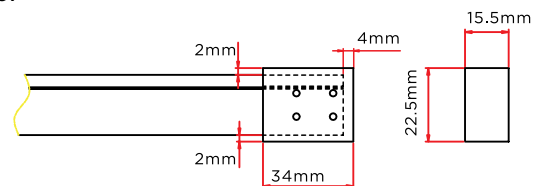


Dual Injection-moulded Front Connector (top end)

Connects light to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m.



Dual Injection-moulded End Cap
Pre-installed termination protection of the light, IP68.

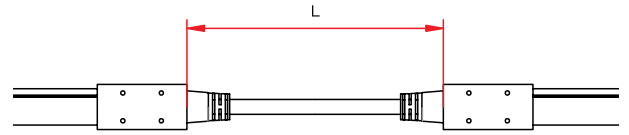




Dual Injection-moulded Jumper

Connects two pieces of lights together with a flexible cable. IP68 Dual Injection-moulded connector. L available in 0.3-1m.

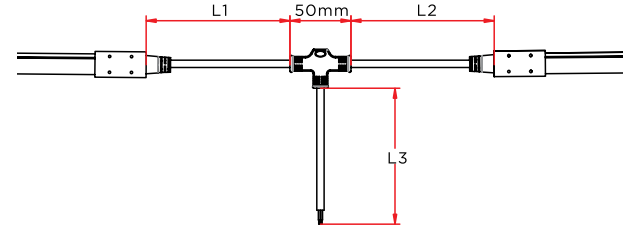
Maximum 8 Jumpers in 20m
Maximum 4 Jumpers in 10m



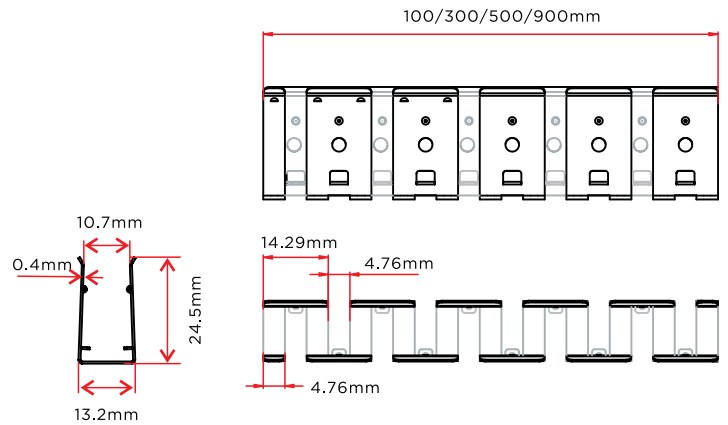
Dual Injection-moulded T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP68 Dual Injection-moulded connector. L1 and L2 available in 0.15-0.5m. L3 available in 0.3-3m.

Maximum 8 T-feeds in 20m
Maximum 4 T-feeds in 10m

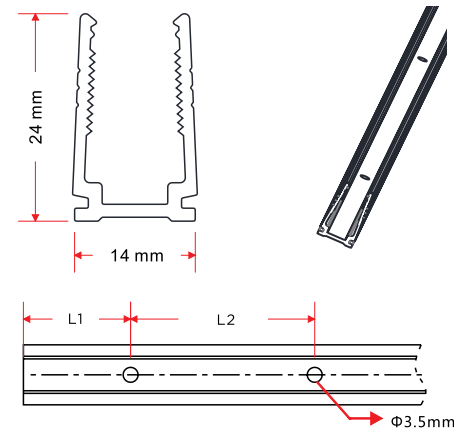
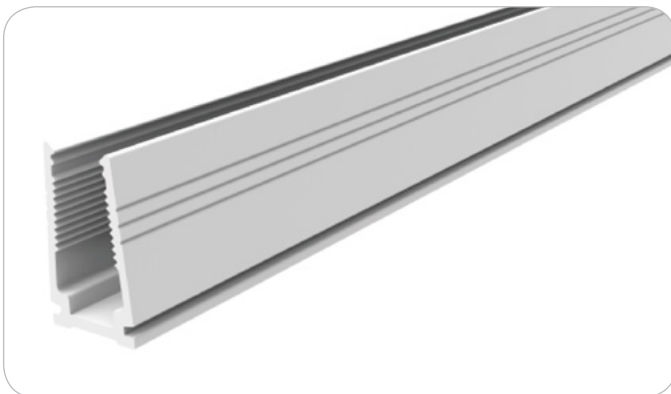


8.9 Curved Stainless Steel Mounting Profile



Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$

8.10 Plastic Mounting Profile

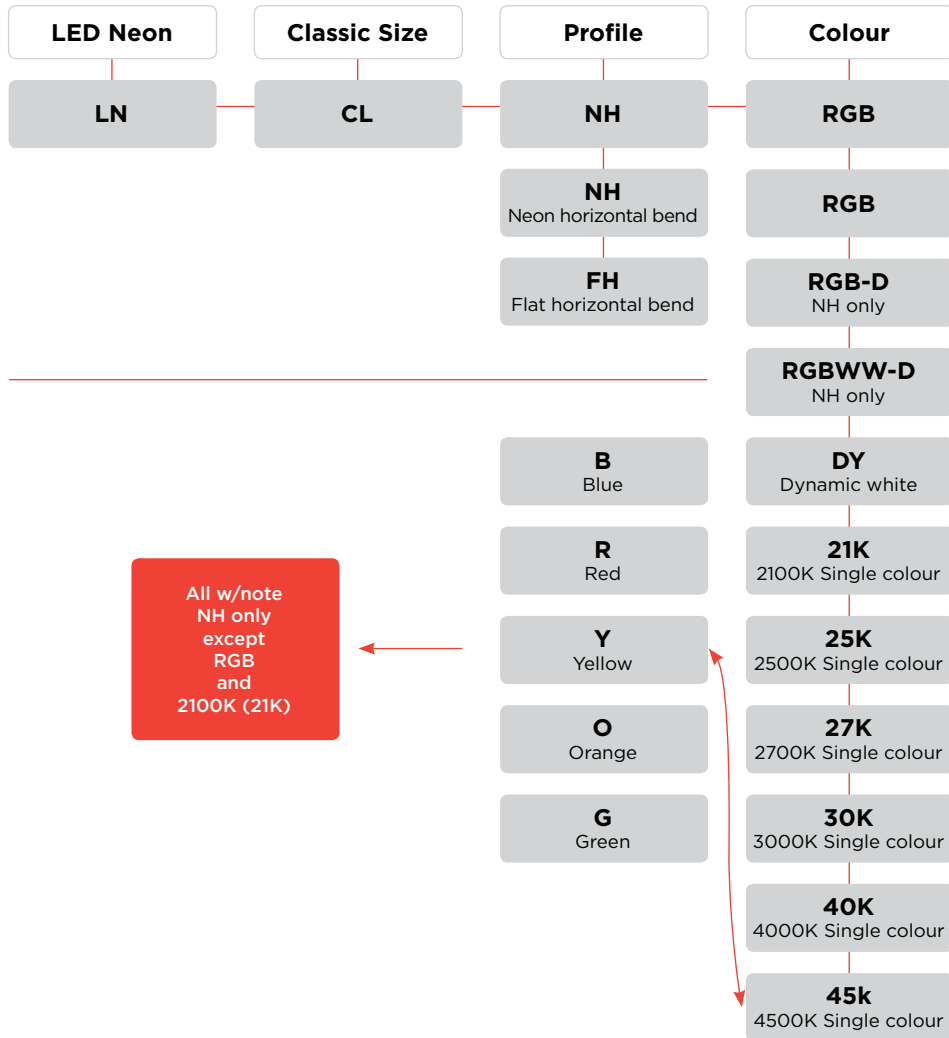


Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$

W X H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number	For Product
14 X 24	500	50	200	$\Phi 3.5$	3	Classic size Neon and Flat Profile
	1000	100	200	$\Phi 3.5$	5	
	2000	100	200	$\Phi 3.5$	10	

9. Appendix

9.1 Product Naming Convention



9.2 Certificate

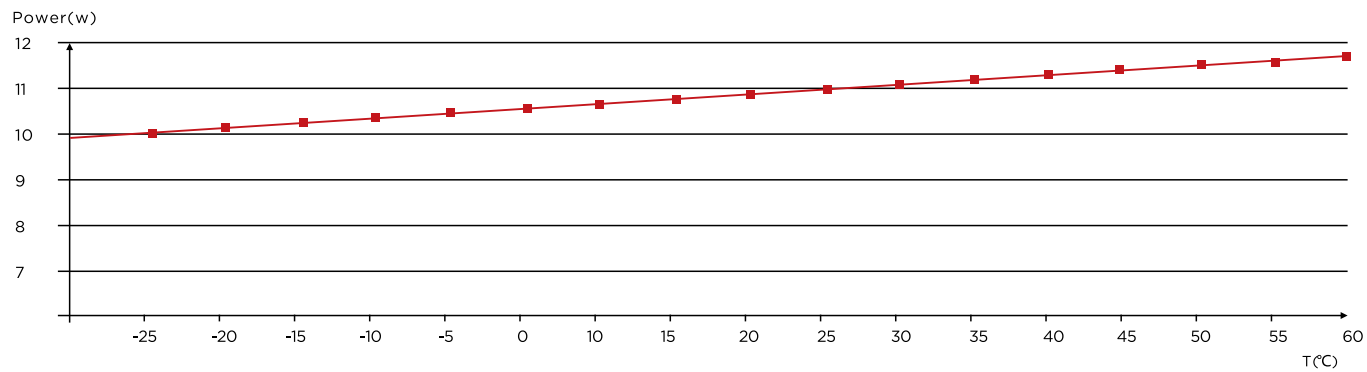
CERTIFICATING TYPE	TESTING ORGANIZATION	CERTIFICATE SERIAL NUMBER	REPORT REFERENCE
UL 2108	UL	20160726-E360029	E360029-20130322
CE-EMC	SGS	SZEM1702001259LMV	SZEM160600421302

9.3 Third-Party Test Report

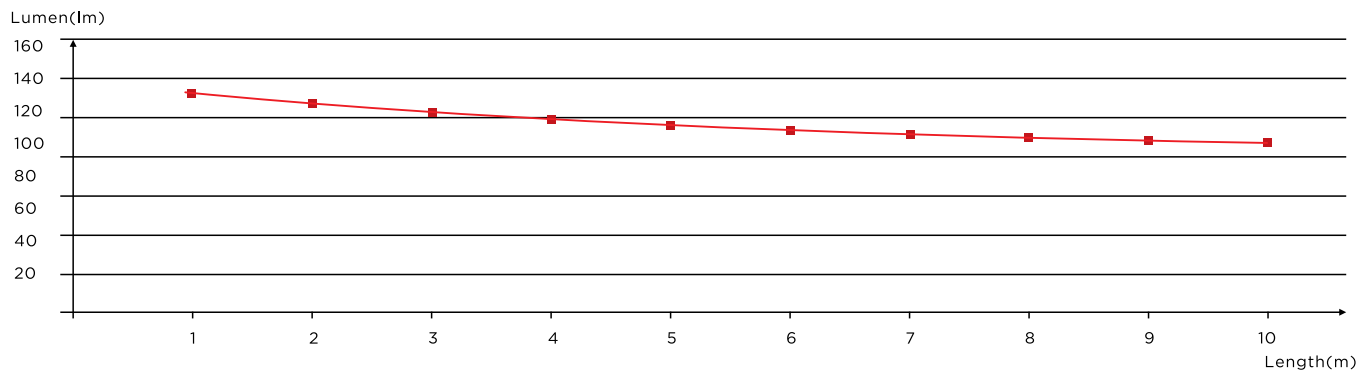
TESTING ITEM	TESTING ORGANIZATION	REPORT NUMBER
RoHS	SGS	CANEC1202163502 A01
IP68: Screw type	TUV SUD	68.140.12.136.02
IPX8: Molding type	SGS	SZES141200357301 SZES141200357401 SZES141200357501
IPX8: Snap type	SGS	GZES160600792031
Flame retardant	TUV SUD	68.140.13.068.01
UV@340nm: Light	AOV	A002R130308065—1R01
UV@340nm: PVC	AOV	A002R130308065—2R01

Note: The testing reports and certificates are available from the related official website.

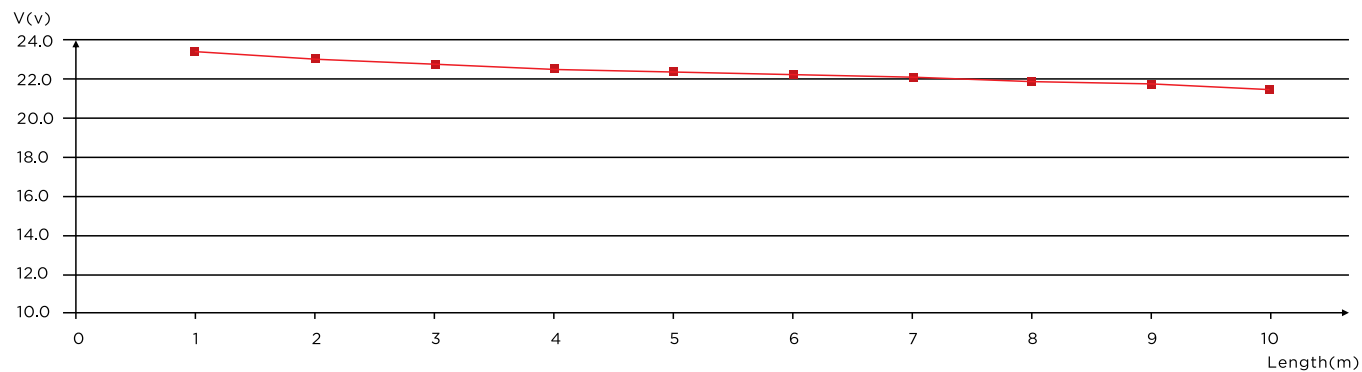
9.4 Figures of Typical Characteristics



Working Temperature vs. Power



Luminous Flux vs. Length of Light



Working Temperature vs. Power