

Specification

LED Neon-Flex

Series-3 Flat Dynamic White Static











1. Specifications & Parameters







Resistant



Resistant



Resistant



Resistant

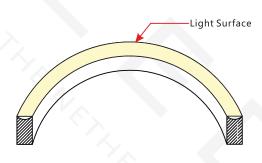


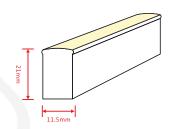
Protection





1.1 Dimensions of Light





Note: Unless otherwise stated, the tolerance of the light is ±0.3mm.

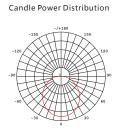
1.2 Technical Parameters

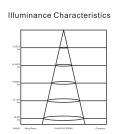
Technical Parameters						
Article No.	NFS3-F-DynWh-static 3-wire					
Color	W/WW					
Working Voltage	DC24V					
Rated Power/m	12W					
LED Qty/m	144LEDs					
LED Distance	13.89mm					
Min. Cutting Unit	12LEDs (1 unit)					
Min. Cutting Length	83.3mm(1 unit)					
Continuous Length	10m					
Weight/m	325g					
Storage Temperature	-20~60°C					
Ambient Working Temperature	-20~45℃					
Ambient Installation Temperature	0~45°C					
IP Rating	Ip68					



1.3 Optical Parameters

Article No. NFS3-F-DynWh-station LED Type SMD	3-wire
**	
B 4 1 500/ 1000	
Beam Angle 50% 120°	
Color CCT Lume	en/m Power/m
WW 2238±102K >110)lm
W 5669±355K >110)lm
W+WW 3465±245K >220	Olm 12w





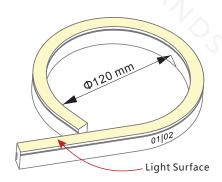


2. Functions & Features

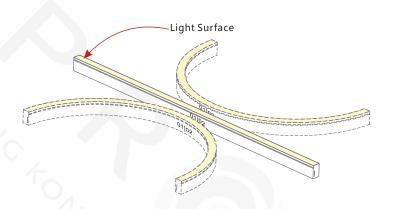
2.1 Product Features

- 1. Dynamic white system with adjustable color temperature from 2,200K to 5,700K.
- 2. High quality SMD LED chip.
- 3. UV & flame resistant construction (PVC).
- 4. High color consistency & smooth illumination with invisible light dots.
- 5. Extremely flat profile and flush light surface.
- 6. High lumen output and IP rating (IP68).
- 7. The product IP rate is ultimately in line with properly applied IP rated connectors.
- 8. Ultra flexible with 120mm minimum bending diameter.
- 9. Easy installation and assembly with DIY accessories for joining and terminating.
- 10. Continuous length up to 10m by energized from one end.
- 11. Environmentally friendly & energy efficient.
- 12. Automated production, high reliability & long warranty.
- 13. 5 years life span.

2.2 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.

3. Types of Connector

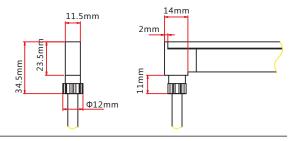
3.1 Injection-moulded Connector

Note: Unless otherwise stated, the tolerance of the connector is ±0.5mm.



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, 15m, 20m.

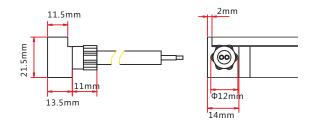






Injection-moulded Front Connector (side)

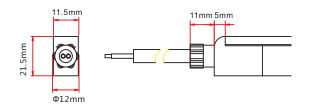
Connects light to power supply with pre-installed side feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





Injection-moulded Front Connector (top end)

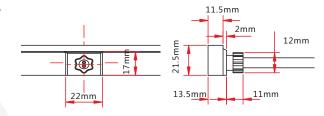
Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





Injection-moulded Middle Feed Connector

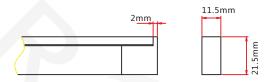
Connects light to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





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

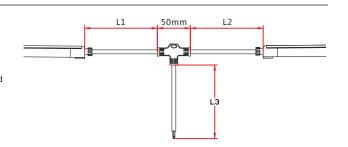




Injection-moulded T-feed

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





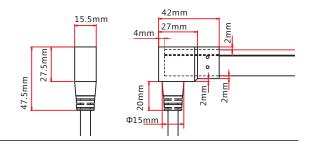
3.2 Dual Injection-moulded Connector

Note: Unless otherwise stated, the tolerance of the connector is ± 0.5 mm.



Dual Injection-moulded Front Connector (bottom)

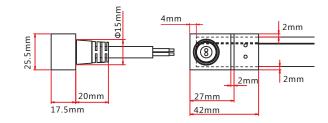
Connects light to power supply with pre-installed bottom feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





Dual Injection-moulded Front Connector (side)

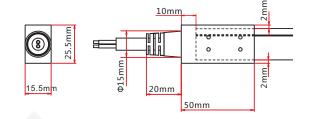
Connects light to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





Dual Injection-moulded Front Connector (top end)

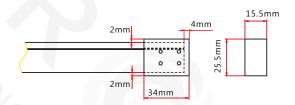
Connects light to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.





Dual Injection-moulded End Cap

Pre-installed termination protection of the light, IP68.

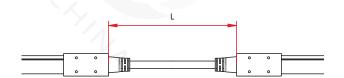




Dual Injection-moulded Jumper

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

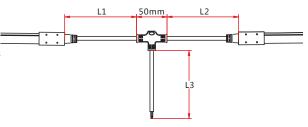




Dual Injection-moulded T-feed

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





3.3 Sleeve Connector

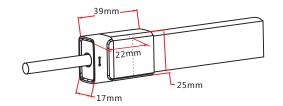
Note: Unless otherwise stated, the tolerance of the connector is ± 0.5 mm.



Sleeve Front Connector

Connects light to power supply. IP40 DIY connector. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.

Feed connector*1 (Three-pin) PC cover*1 Anti-skidding clips*2

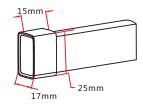




Sleeve End Cap

Termination protection of the light. IP40 DIY connector.

Shading Sheat*1 PC cover*1

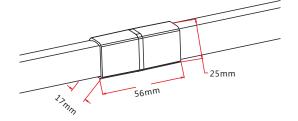


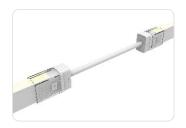


Sleeve Middle Connector

Combine two pieces of lights together. DIY connector.

Pin connector*1 (Three-pin) PC cover*2 Anti-skidding clips*4

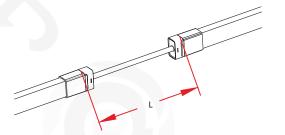




Sleeve Jumper

Connects two pieces of lights together with a flexible cable. IP40 DIY connector. Lavailable in 0.3m, 1m and 3m.

Double-end feed connector*1 (Threepin) PC cover*2 Anti-skidding clips*4

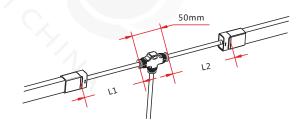




Sleeve Power T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP40 DIY connector. L1 and L2 available in 0.3m.

T joint*1 (Three-pin) PC cover*2 Anti-skidding clips*4





3.4 Snap Connector

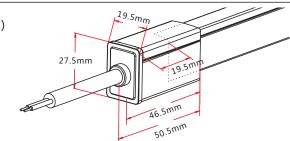
Note: Unless otherwise stated, the tolerance of the connector is ± 0.5 mm.



Snap Front Connector(top end)

Connects light to power supply. IP67 DIY connector. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.

Feed connector*1 (Three-pin) Silicone gaskett*1 U steel plate*1 Anti-skidding clip*1 PC Cover*1

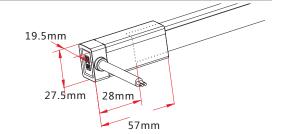




Snap Front Connector(side)

Connects light to power supply. IP67 DIY connector. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.

Feed connector*1 (Three-pin) Silicone gaskett*1 U steel plate*1 Anti-skidding clip*1 PC Cover*1

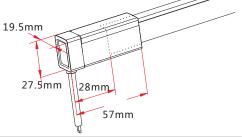




Snap Front Connector(bottom)

Connects light to power supply. IP67 DIY connector. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.

Feed connector*1 (Three-pin) Silicone gaskett*1 U steel plate*1 Anti-skidding clip*1 PC Cover*1

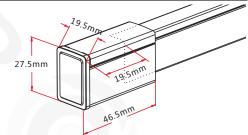




Snap End Cap

Termination protection of the light. IP67. DIY connector.

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

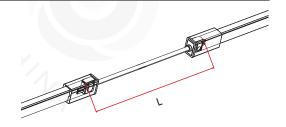




Snap Jumper

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*1 (Three-pin) Silicone gasket*2 U steel plate*2 Anti-skidding clip*2 PC Cover*2

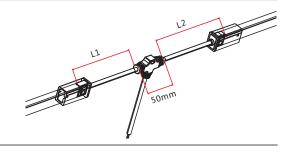




Snap Power T-feed

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*1 (Three-pin) Silicone gasket*2 U steel plate*2 Anti-skidding clip*2 PC Cover*2





3.5 Anti-wicking Ferrule

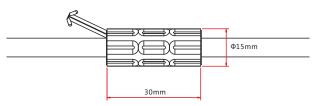
Note: Unless otherwise stated, the tolerance is ± 0.5 mm.



Anti-wicking Ferrule

The anti-wicking ferrule is located at 115mm (±5mm tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.



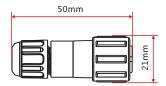
3.6 Male & Female Connector

Note: Unless otherwise stated, the tolerance is ±2mm.



Male & female Connector

For plug and play cable junction, DIY or Pre-installed connector, IP68





4. Mounting Profile

4.1 Standard Aluminum Profile

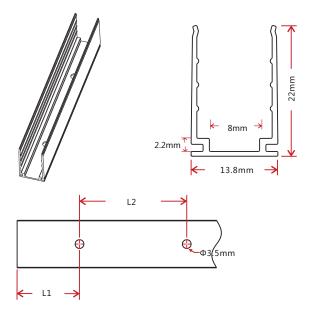


Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5 \, mm$.

Installation Way







Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number
		35	17.5	/	Ф3.5	1
NFS3DW3	13.8*22	500	50	200	Ф3.5	3
141 330 443	13.0 22	1000	100	200	Ф3.5	5
		2000	100	200	Ф3.5	10

4.2 Plastic Profile

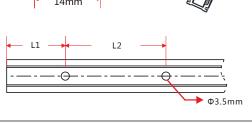


Note: Unless otherwise stated, the tolerance of the profile is ± 0.5 mm.

Installation Way







_								
	Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number	
			500	50	200	Ф3.5	3	
	NFS3DW3 14*24	1000	100	200	Ф3.5	5		
		_	2000	100	200	Ф3.5	10	



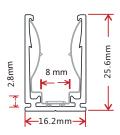
4.3 Spring Clip Aluminum Profile

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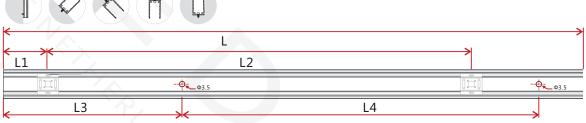
20



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



Installation Way



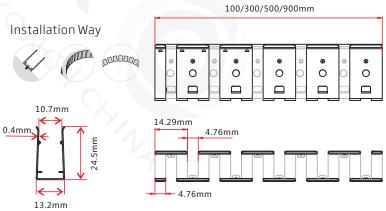
Model	W*H(mm)	Standard Length(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	Hole Screw(mm)	Hole Number	Clip Number
		35	17.5	1	5	25	Ф3.5	2	1
NECSEMA	16 2+25 6	500	25	225	50	200	Ф3.5	3	3
NFS3DW3	NFS3DW3 16.2*25.6	1000	25	237.5	100	200	Ф3.5	5	5
		2000	25	243.8	100	200	Ф3.5	10	9

4.4 Bendable Stainless Steel Profile



Model:

Note: Unless other wise stated, the tolerance of the profile is \pm 0.5mm.





4.5 Cable Exit Oriented Aluminum Profile (Applicable to Injection-moulded Connector Only)



Note: Unless otherwise stated, the tolerance of the profile is ± 0.5 mm.









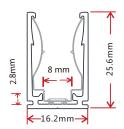
Bottom Feed

Middle Feed

Side Feed From Left

Side Feed From Right

4.6 Corner Aluminum Profile (Applicable to Injection-moulded Connector Only)



Note: Unless otherwise stated, the tolerance of the profile is ±0.5mm.



L Shape



T Shape



Outward L Shape



Inward L Shape



X Shape

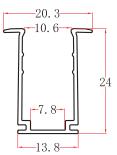
NOTE: Please contact our sales team for more detailed information

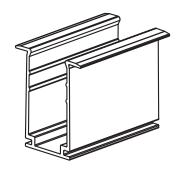


4.7 Recessed Mounting Profile

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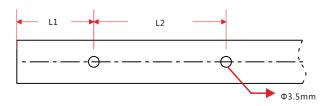




Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5 \text{mm}$.

Installation Way





Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number	
	20.2124	35	5	25	Ф3.5	2	
NFS3DW3	20.3*24	500	50	200	Ф3.5	3	
		1000	100	200	Ф3.5	5	
		2000	100	200	Ф3.5	10	



5.Packaging

Packaging Method



Packaging Detail

Light Length	White Box Dimension (cm)	Carton Dimension (cm)	Numbers of White Box	Carton Weight (kg)
5m	35*4.2*46	48*37*24	5	10
10m	45*4.2*56	58*47*24	5	18
20m	61*4.2*72	74*63.5*10.5	2	15



6.7 Loading Chart

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Type.	Rated Power /mtr	Power Supply											
туре.	Rated Power /IIIti	35w	60w	75w	80w	100w	120w	150w	120w	150w	185w	240w	320w
NFS3DW3	6.5w/7.2w/8w	3m	6m	7.5m	8m	10m	12m	15m			18m	24m	30m
	10.6w/11w/12w	2m	3.5m	4.5m	5m	6m	7m	10m			12m	14m	20m
	15w	2m	3m	4m	4.2m	5m			6m	8m	10m		
Energizing Way			DC i	nput ——@	/02				DC input	01	*	02	OC input

Note: 1. These are the light maximum recommended running length subject to selected power supply.

2. For example: It is recommended to use one 80W power supply loading maximum 8m light (7.2w/m) or maximum 5m light (12w/m) by energizing the light one end.

6.8 Correlated Color Temperature

ANSI STANDARD

Nominal CCT Categories

(2200-6500K)

Nominal CCT	Target CCT and tolerance(K)	Target D _{uv}	D _{uv} Tolerance Range
2200K	2238 ±102	0.0000	Tx:CCT of the source
2500K	2460±120	0.0000	For Tx < 2870K
2700K	2725 ±145	0.0000	0.000±0.0060
3000K	3045±175	0.0001	For Tx≥2870K
3500K	3465±245	0.0005	Duv(Tx)±0.0060
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	Duv(Tx)=57700 x (1/Tx)2
5000K	5029±283	0.0020	-44.6 x (1/Tx)
5700K	5667±355	0.0025	+0.00854
6500K	6532±510	0.0031	
Flexible CCT	$T_{-}^{1)} + \Lambda T^{2)}$	D T-3)	

Remark:

- T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
- 2) $\Delta T = 1.1900 \times 10^8 \times T^3 1.5434 \times 10^4 \times T^2 + 0.7168 \times T 902.55$
- 3) Same as in the D_{uv} Tolerance Range.