

Features

1. Excellent weather and uv resistance
2. Flexible and cuttable
4. Great linear effect for uniform light.
5. CRI 90+,95+ optional,high brightness,high efficacy up to 140lm/W.
6. Multiple spec. and LED quantity optional.

Bending radius: $R_{min}=20mm$



Application

Signage ,LED luminous characters,light box,decorative ,advertising board lighting, etc.

Installation

Fix by 3M self adhesive tape



Optical & Electrical Parameters

90+

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Typical Luminous Flux(lm/m)	Ra	Efficacy	Voltage (DC V)	Power (W/m)
FNH2835T-64-24	W	2600-2800	120°	983	90+	128	24V	7.68
		2800-3200		1006		131		
		3800-4300		1044		136		
		4700-5300		1052		137		
		5800-6800		1060		138		
FNH2835T-128-24	W	2600-2800	120°	1509	90+	131	24V	11.52
		2800-3200		1532		133		
		3800-4300		1601		139		
		4700-5300		1613		140		
		5800-6800		1624		141		
FNH2835T-160-24	W	2600-2800	120°	1886	90+	131	24V	14.40
		2800-3200		1915		133		
		3800-4300		2002		139		
		4700-5300		2016		140		
		5800-6800		2030		141		
FNH2835T-240-24	W	2600-2800	120°	2830	90+	131	24V	21.60
		2800-3200		2873		133		
		3800-4300		3002		139		
		4700-5300		3024		140		
		5800-6800		3045		141		
FNH2835T-24	W	2600-2800	120°	3395	90+	131	24V	25.92
		2800-3200		3447		133		
		3800-4300		3603		139		
		4700-5300		3628		140		
		5800-6800		3655		141		
FNH2835T-416-24	W	2600-2800	120°	4905	90+	131	24V	37.44
		2800-3200		4980		133		
		3800-4300		5204		139		
		4700-5300		5242		140		
		5800-6800		5279		141		
FNH2835T-432-24	W	2600-2800	120°	5093	90+	131	24V	38.88
		2800-3200		5171		133		
		3800-4300		5404		139		
		4700-5300		5443		140		
		5800-6800		5482		141		



95+

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Typical Luminous Flux(lm/m)	Ra	Efficacy	Voltage (DC V)	Power (W/m)
FNH2835T-64-24	W	2600-2800	120°	906	95+	118	24V	7.68
		2800-3200		929		121		
		3800-4300		968		126		
		4700-5300		975		127		
		5800-6800		983		128		
FNH2835T-128-24	W	2600-2800	120°	1382	95+	120	24V	11.52
		2800-3200		1417		123		
		3800-4300		1486		129		
		4700-5300		1498		130		
		5800-6800		1509		131		
FNH2835T-160-24	W	2600-2800	120°	1728	95+	120	24V	14.40
		2800-3200		1771		123		
		3800-4300		1858		129		
		4700-5300		1872		130		
		5800-6800		1886		131		
FNH2835T-240-24	W	2600-2800	120°	2592	95+	120	24V	21.60
		2800-3200		2656		123		
		3800-4300		2786		129		
		4700-5300		2808		130		
		5800-6800		2830		131		
FNH2835T-288-24	W	2600-2800	120°	3110	95+	120	24V	25.92
		2800-3200		3188		123		
		3800-4300		3344		129		
		4700-5300		3370		130		
		5800-6800		3396		131		
FNH2835T-416-24	W	2600-2800	120°	4493	95+	120	24V	37.44
		2800-3200		4605		123		
		3800-4300		4830		129		
		4700-5300		4867		130		
		5800-6800		4904		131		
FNH2835T-432-24	W	2600-2800	120°	4666	95+	120	24V	38.88
		2800-3200		4782		123		
		3800-4300		5016		129		
		4700-5300		5054		130		
		5800-6800		5093		131		



Temperature-Related Parameters(Normal Working)

Model No.	Power(W)	No Brightness Difference Max Run(m)	UL Max Run(m)	TA(°C)	Operating Temp MAXTc(°C)
FNH2835T-64-24	7.68	5	10	-20~+60	---
FNH2835T-128-24	11.52		6.5		
FNH2835T-160-24	14.40		5.5		
FNH2835T-240-24	21.60		3.5		
FNH2835T-288-24	25.92		3		
FNH2835T-416-24	37.44		2		
FNH2835T-432-24	38.88		2		

Other Parameters

Model No.	LED Quantity (PCS/m)	Min Cuttable Length(mm)	Storage Temperature(°C)
FNH2835T-64-24	64	125	-20~+70
FNH2835T-128-24	128	62.5	
FNH2835T-160-24	160	50	
FNH2835T-240-24	240	33.33	
FNH2835T-288-24	288	83.33	
FNH2835T-416-24	416	38.46	
FNH2835T-432-24	432	18.5	

NOTE:

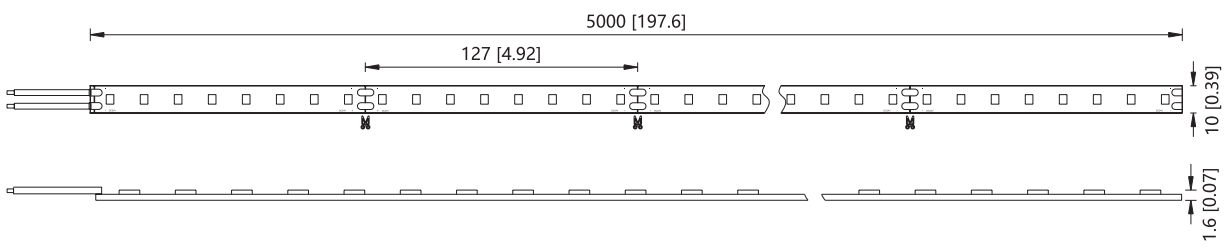
1. Test environment temperature : 25±2°C.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. The luminous flux is tested with corresponding color light on.
4. Different color temperature or wavelength will make luminous flux different.
5. The Luminous efficiency is measured value.
6. Max run is in single feed.
7. UL max run refers to operating length at UL class II @100W.24V.
8. The luminous flux and power tolerance within ±10%.
9. Cutting marks see profile drawing below.



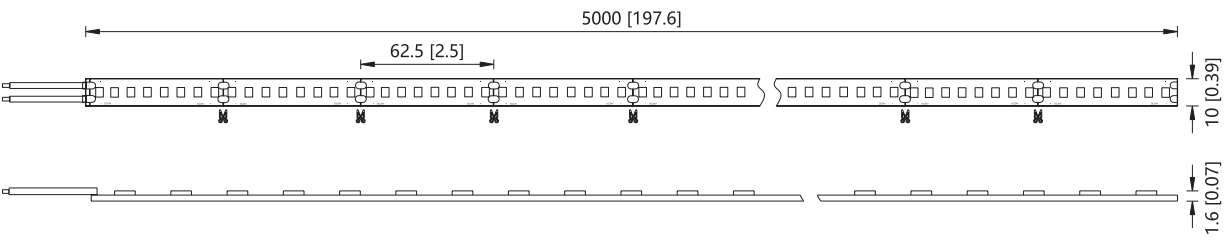
Profile Drawing

Unit: mm[inch]

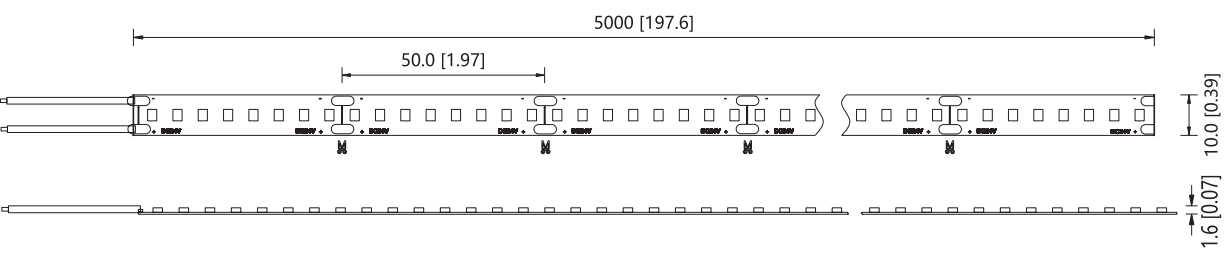
FNH2835T-64-24



FNH2835T-128-24



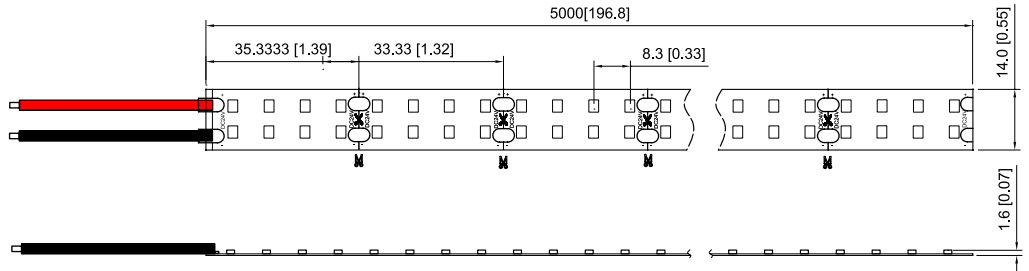
FNH2835T-160-24



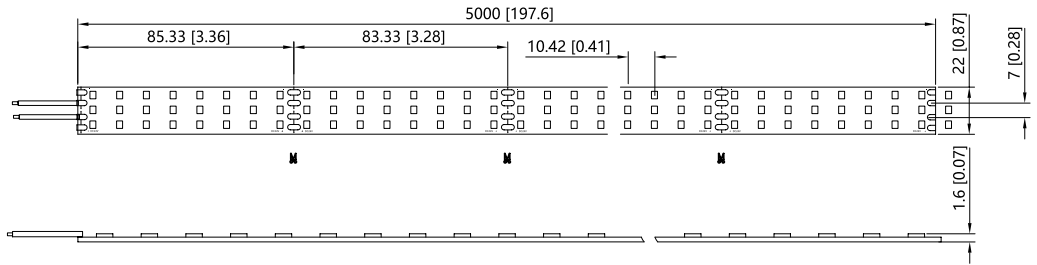
NOTE:For detailed drawing, please consult sales rep.



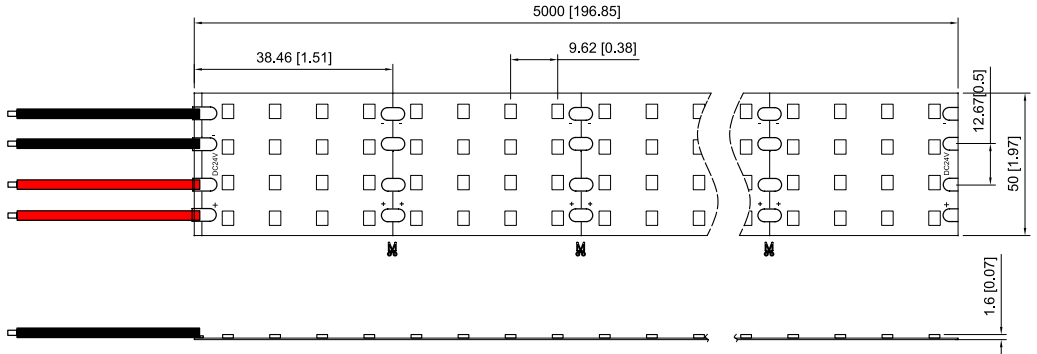
FNH2835T-240-24



FNH2835T-288-24

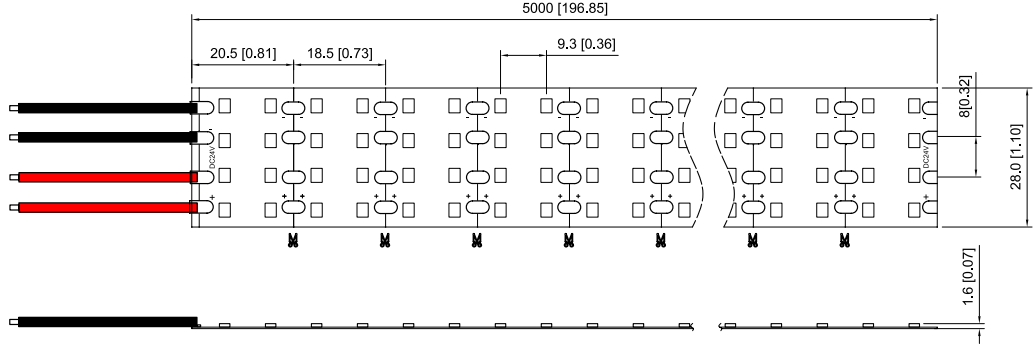


FNH2835T-416-24





FNH2835T-432-24



NOTE:For detailed drawing, please consult sales rep.

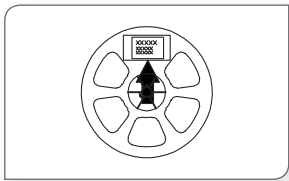
Operating Length VS. Electrical Parameters

FNH2835T-64-24	Operating Length(m)					
Parameters	1	2	3	4	5	6
Operating Voltage (DC V)	24.0	24.0	24.0	24.0	24.0	24.0
Total Current(A)	0.34	0.65	0.94	1.22	1.49	1.71
Total Power(W)	8.26	15.55	22.46	29.18	35.76	41.04
Head voltage(V)	--	--	--	--	--	--
Tail voltage(V)	--	--	--	--	--	--
Head Current(mA)	--	--	--	--	--	--
Tail Current(mA)	--	--	--	--	--	--
Head-to-tail Voltage Drop Rate(%)	--	--	--	--	--	--
Head-to-tail Current Drop Rate(%)	--	--	--	--	--	--
Single or Double Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

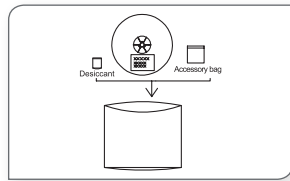
FNH2835T-128-24	Operating Length(m)				
Parameters	1	2	3	4	5
Operating Voltage (DC V)	24.0	24.0	24.0	24.0	24.0
Total Current(A)	0.49	0.95	1.37	1.73	2.05
Total Power(W)	11.64	22.80	32.88	41.52	49.20
Head voltage(V)	--	--	--	--	--
Tail voltage(V)	--	--	--	--	--
Head Current(mA)	--	--	--	--	--
Tail Current(mA)	--	--	--	--	--
Head-to-tail Voltage Drop Rate(%)	--	--	--	--	--
Head-to-tail Current Drop Rate(%)	--	--	--	--	--
Single or Double Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed



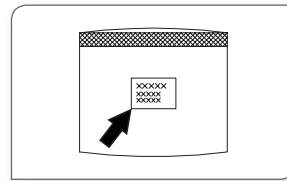
Packaging



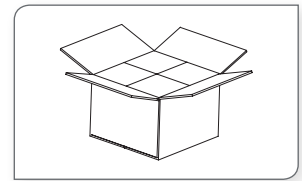
Label on the reel.



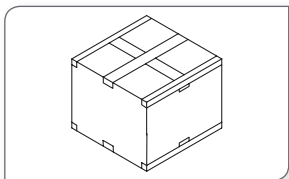
Put reel, accessory bag and desiccant together into static shielding bag.



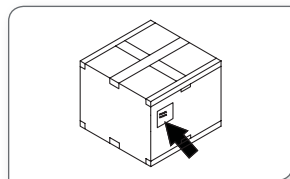
Seal and label the static shielding bag.



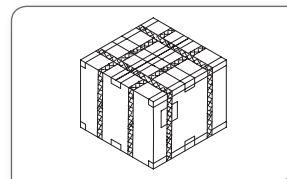
Put the packed static shielding bag into carton case.



Seal the carton case



Label carton case.



Use packing belt to pack. Add edge protectors if necessary.

Packaging Information

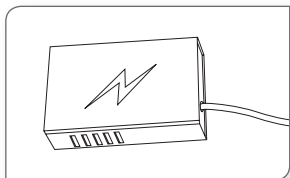
Model No.	Product Size L*W(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
FNH2835T-64-24	5000*10	550*400*340	5	100	7.93(1±10%)	12.50(1±10%)
FNH2835T-128-24	5000*10			100	8.06(1±10%)	12.69(1±10%)
FNH2835T-160-24	5000*10			100	8.56(1±10%)	13.19(1±10%)
FNH2835T-240-24	5000*14			70	6.63(1±10%)	12.12(1±10%)
FNH2835T-288-24	5000*22			50	6.55(1±10%)	10.90(1±10%)
FNH2835T-416-24	5000*50			20	6.13(1±10%)	11.20(1±10%)
FNH2835T-432-24	5000*28			40	6.22(1±10%)	10.85(1±10%)

NOTE:

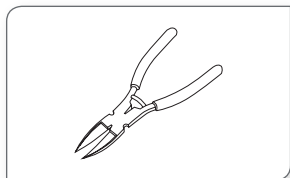
1. Every 5m for a reel, one reel for a static shielding bag.
2. The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.



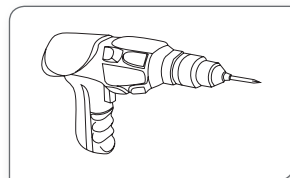
Packaging



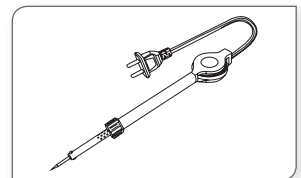
LED Power Supply



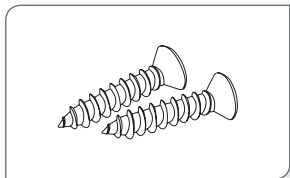
Cutting tool



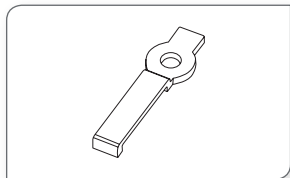
Electric drill



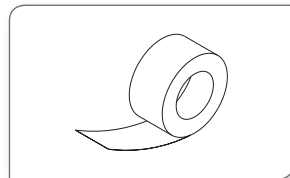
Electric iron



Self-tapping screw

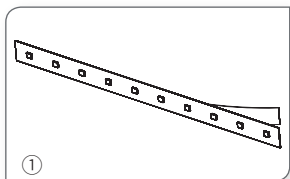


Mounting clips

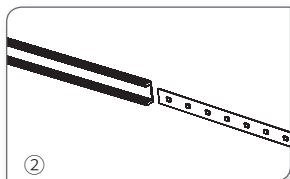


Insulated tape

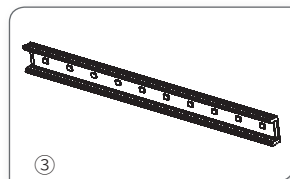
Aluminum channel installation



①



②



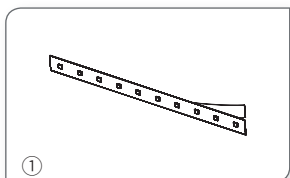
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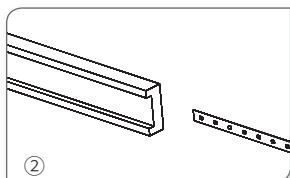
④

1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track.
4. Install the cover and end cap.

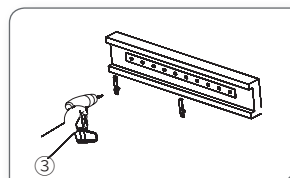
Covered channel installation



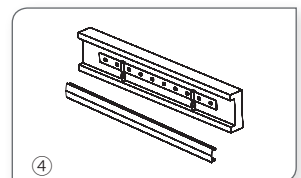
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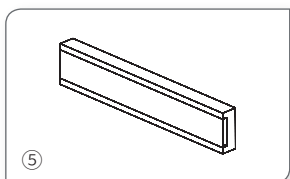
②



③



④



⑤

1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track and fix them with clips.
4. Install the cover and end cap.
5. Finished



Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation, waterproof and anti-corrosive treatment.
- If the working length exceeded the max run length, make sure to have extra power supply.
- If it needs higher current of a LED, make sure having extra cooling.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and Recycling

Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
 The parameters given in this manual are typical values and for reference only.
 All illustrations and drawings in this manual are for reference.
 This product is subject to change without notice.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.