

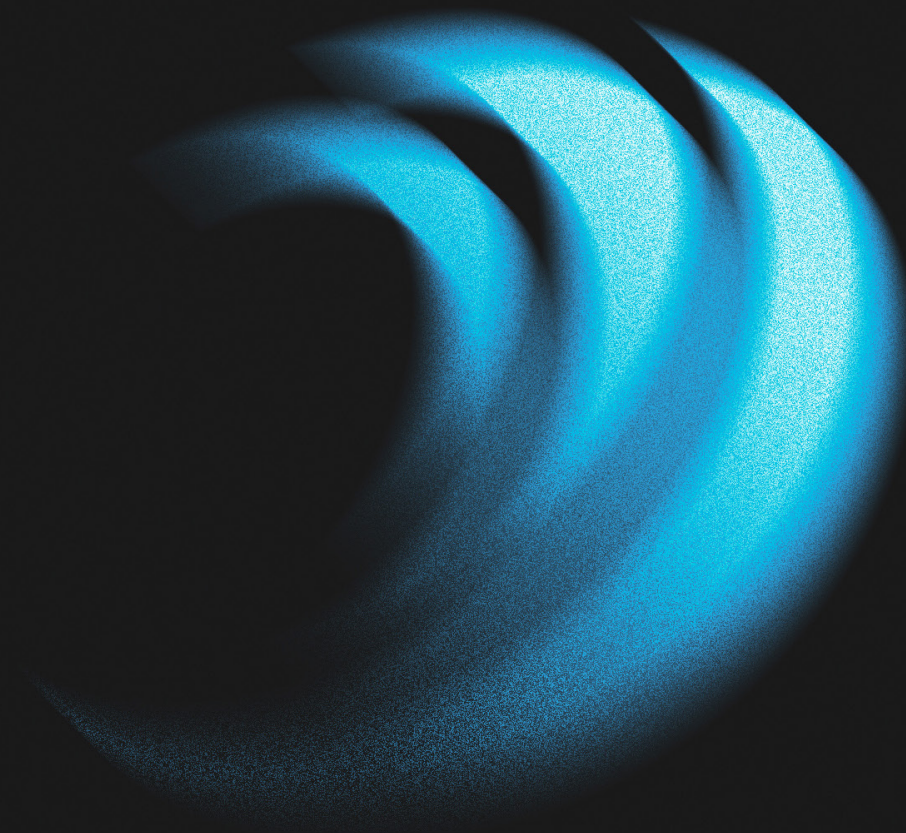


LED NEON

NDF1617

DC 24V

TOP BENDING





NDF1617 | TOP BENDING

FEATURES

- Color options: Single color, WN , RGB, RGBW and PIXEL.
- Adopt high quality constant current components with stable and reliable performance.
- Top bending with good flexibility.
- Single color does not support dimming (If using Mean Well ELG/HLG power supply, it supports PWM dimming within 2KHz.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage	Beam Angle	Ra	Color	Lm/m	Lm/W	W/m
NDF1617-Single color (112LEDs/m) Single color: head-to-tail current drop rate is 10%	24V DC	115°	>80	2300K	925	55.7	17.2
			>90	2700K	897	53.0	
			>80	3000K	1006	60.9	
			>80	3500K	1070	64.1	
			>80	4000K	1074	64.3	
			>90	5000K	893	53.6	
			>80	6000K	1028	61.5	
			\	Red	235	13.1	17.2
				Green	687	38.2	
				Blue	148	8.2	
				Yellow	202	11.2	
				Orange	211	11.7	
NDF1617-Single color (140LEDs/m)	24V DC	115°	>90	2300K	1219	70.3	17.2
				2700K	1022	59.6	
				3000K	1332	69.1	
				4000K	1353	77.5	
				5000K	1391	79.6	
				6000K	1347	77.3	
NDF1617-WN	24V DC	115°	>90	3000K	467	65.3	7.2
				6000K	488	67.6	7.2
				W+N	941	65.6	14.4
NDF1617-RGB	24V DC	115°	\	Red	89	17.6	5.7
				Green	203	35.0	5.7
				Blue	46	7.8	5.7
				RGB	317	19.0	17.2
NDF1617-RGBW	24V DC	115°	>80	3500K	240	55	4.3
			\	Red	66	15	4.3
				Green	153	35	4.3
				Blue	38	8	4.3
				RGBW	477	27	17.2
(Pixel) NDF1617-RGB	24V DC	115°	\	Red	48	7.2	4.3
				Green	110	15.8	4.3
				Blue	25	3.5	4.3
				RGB	178	12.6	12.9

☐ Suggested MR-502 controller (IC: UCS5603A) ☐ The data of RGB is tested when R/G/B are all lit.

Model No.	Voltage	Beam Angle	Ra	Color	Lm/m	Lm/W	W/m
(Pixel) NDF1617-RGBW	24V DC	114°	\	Red	58	7.5	7.6
				Green	146	18.9	7.6
				Blue	36	4.6	7.6
				RGBW	390	18.8	19.6

☐ Suggested DMX controller
 ☐ The dada of RGBW is tested when R/G/B/W are all lit.

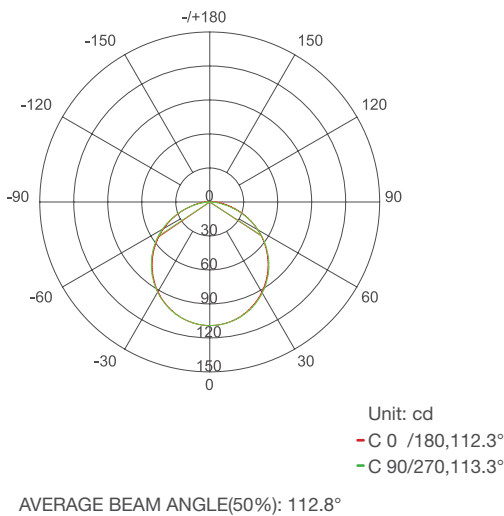
Model No.	Voltage	Beam Angle	Ra	Color	Dimming Level	Lm/m	Lm/W	W/m
(Pixel) NDF1617-WN-PTW	24V DC	115°	>90	W+N	17%	39	30	1.28
					25%	61	35	1.70
					50%	207	46	4.45
					75%	422	47	8.90
					100%	698	48	14.40

OTHER PARAMETERS

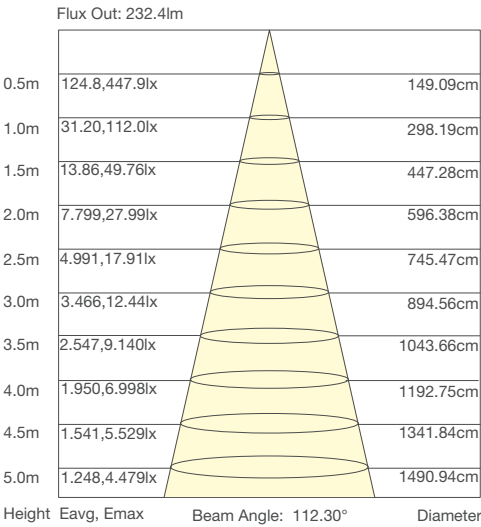
Model No.	LED Qty (pcs/m)	Max Run	Pix/m	Min. cutting unit
NDF1617-Single color	112	10m	--	62.5 mm
NDF1617-Single color	140	10m	--	50.0 mm
NDF1617-WN	240	10m	--	50.0 mm
NDF1617-RGB	72	5m	--	83.3mm
NDF1617-RGBW	72	5m	--	83.3mm
(Pixel) NDF1617-RGB	60	5m	10Pix/m	100.0 mm
(Pixel) NDF1617-RGBW	60	5m	10Pix/m	100.0 mm
(Pixel) NDF1617-WN-PTW	168	5m	--	83.3mm

☐ Working Temperature: -20~+60°C
 ☐ Storage Temperature: -20~+70°C
 ☐ Note: Max run is based on one power end.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE ILLUMINATION

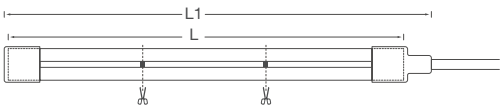


Note: the above data is based on NDF1617-RGB. For other data, please consult sales rep.

RECOMMENDED POWER SUPPLY UPON WORKING LENGTH

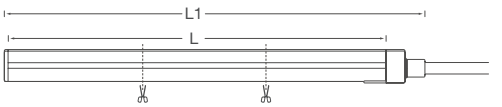
Model No.	Working Length(m)	Measured Current (A)	Rated Voltage	Measured Power(W)	Recommended Power Supply(W)	Power Supply Mode
NSF1617-Single color (112LEDs/m)	1	0.72	DC 24V	17.28	30	Single Feed
	5	3.6		86.4	100	
	10	7.2		172.8	250	
NSF1617-Single color (140LEDs/m)	1	0.72	DC 24V	17.28	24	Single Feed
	10	6.9		165.6	220	
NDF1617-WN	1	0.6	DC 24V	14.4	25	Single Feed
	5	3		72	100	
	10	8		144	200	
NDF1617-RGB	1	0.72	DC 24V	17.28	30	Single Feed
	5	3.24		77.76	100	
NDF1617-RGB-R	1	0.21	DC 24V	5.04	7.2	Single Feed
	15	2.84		68.16	100	
NDF1617-RGB-G	1	0.24	DC 24V	5.76	7.2	Single Feed
	15	3.24		77.76	100	
NDF1617-RGB-B	1	0.24	DC 24V	5.76	7.2	Single Feed
	15	3.24		77.76	100	
NDF1617-RGBW	1	0.72	DC 24V	17.28	30	Single Feed
	5	3.24		77.76	100	
NDF1617-RGBW-R	1	0.17	DC 24V	4.08	7.2	Single Feed
	20	3.06		73.44	100	
NDF1617-RGBW-G	1	0.18	DC 24V	4.32	7.2	Single Feed
	20	3.24		77.76	100	
NDF1617-RGBW-B	1	0.19	DC 24V	4.56	7.2	Single Feed
	20	3.42		82.08	120	
NDF1617-RGBW-W	1	0.21	DC 24V	5.04	7.2	Single Feed
	20	3.78		90.72	120	
(Pixel)NDF1617-RGB	1	0.54	DC 24V	12.96	20	Single Feed
	5	2.43		58.32	80	
(Pixel)NDF1617-RGBW	1	0.86	DC 24V	20.64	30	Single Feed
	5	3.87		92.88	120	
(Pixel)NDF1617-WN-PTW	1	0.47	DC 24V	11.28	15	Single Feed
	5	2.04		48.96	100	

PROFILE DRAWINGS



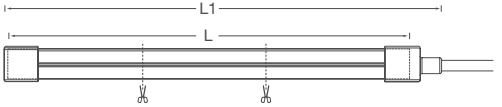
Glue Process (IP67)

Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617	5000±5 / [196.85±0.20]	5016±5 / [197.48±0.20]



Molding pressed (IP67)

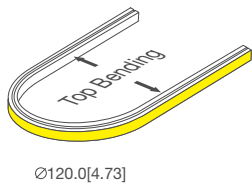
Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617	5000±5 / [196.85±0.20]	5023±5 / [197.75±0.20]



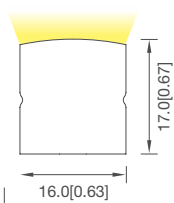
Molding pressed (IP68)

Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617	5000±5 / [196.85±0.20]	5020±5 / [197.64±0.20]

Bending Diameter

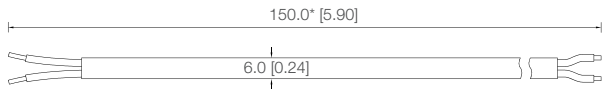


Dimension

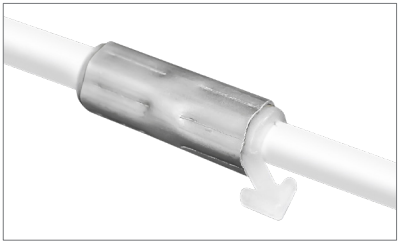
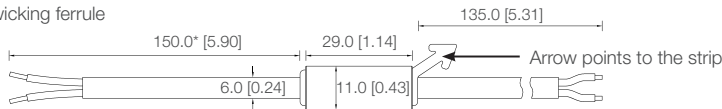


WIRE SPEC

General Wire



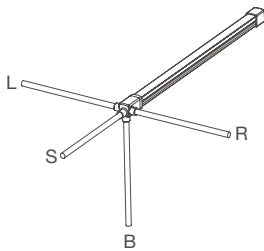
Wire with anti-wicking ferrule



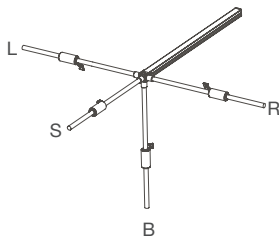
- Notes:
- You can choose one of the above two wires.
 - 2/3/4/5 cores are available.
 - The wire length marked with '*' supports customization.
 - Don't suggest ferrule in the water avoiding Oxidation.
 - Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

END CAP - OUTLET DIRECTION

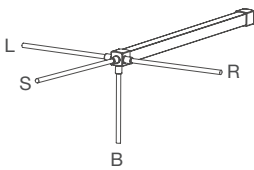
Glue Process (IP67)



Molding Pressed (IP67)



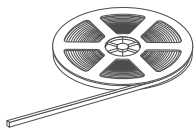
Molding Pressed (IP68)



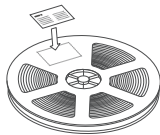
L: Left outlet / R: Right outlet / B: Bottom outlet / S: Straight outlet

PACKAGING INFORMATION

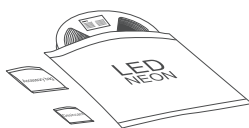
Packaging method - 5m Max Run



Roll the product to a reel



Label the reel;



Put reel, accessory bag and desiccant together into a foil bag;



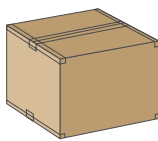
Label the foil bag;



Use packing belt to pack. Add edge protectors if necessary



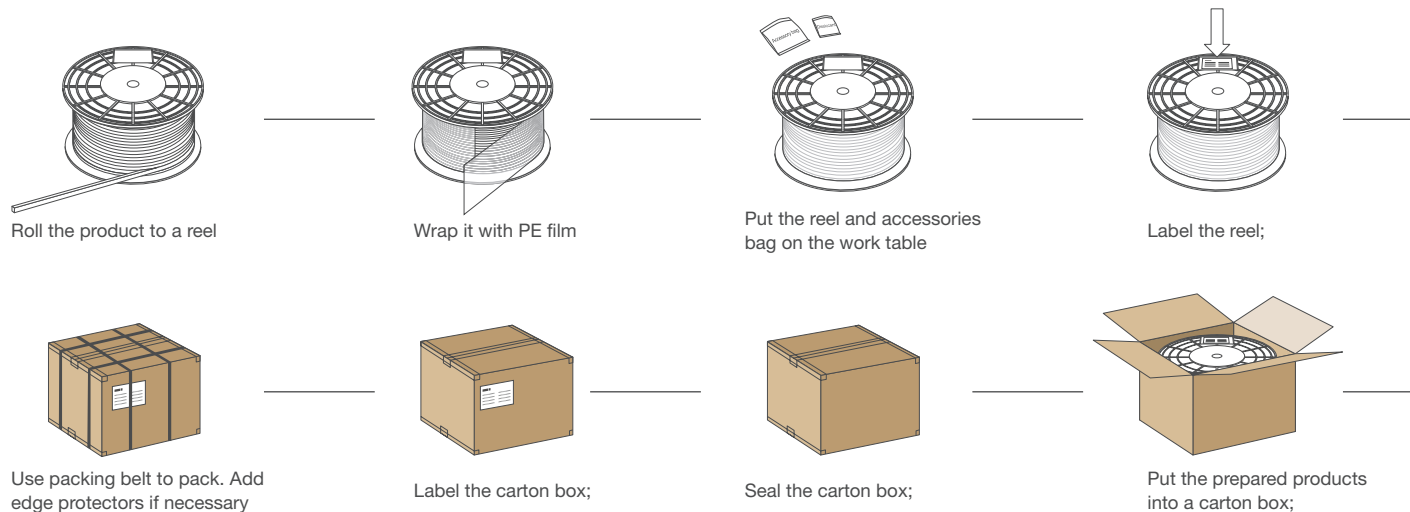
Label the carton box;



Seal the carton box;



Put the foil bags into a carton box;



Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1617-Single color	10000*16*17	480*445*370	10	6	19.25 (1± 10%)
NDF1617-WN	10000*16*17	480*445*370	10	6	19.45 (1± 10%)
NDF1617-RGB	5000*16*17	480*445*370	5	12	20.15 (1± 10%)
NDF1617-RGBW	5000*16*17	480*445*370	5	12	20.15 (1± 10%)
(Pixel) NDF1617-RGB	5000*16*17	480*445*370	5	12	19.20 (1± 10%)
(Pixel) NDF1617-RGBW	5000*16*17	480*445*370	5	12	19.55 (1± 10%)
(Pixel) NDF1617-WN_PTW	5000*16*17	390*390*325	5	20	15.20 (1± 10%)

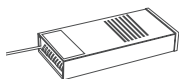
Notes:

- One piece(5/10m) per reel, and the reel is packed in a foil bag, and put into a carton.
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

PRODUCTS AND TOOLS



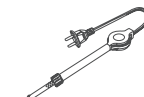
Cutter



LED power supply



Electric drill

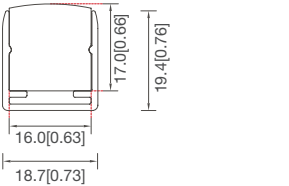


Electric iron

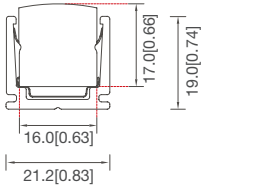
ACCESSORIES INFORMATION

Picture	Item	Model No.	Part No.	Dimensions L*W*H	Quantity (5/10m)	Free/Optional
	Front cap	ASY-1617-N00NNH-EC	01.06.KL18110611	30*18*18mm	2-4pcs	Free
	Closing End-cap	ASY-1617-N00NNX-EC	01.06.KL18110631	18*19*18mm	2-4pcs	Free
	Front cap (side outlet)	ASY-1617-N00NNS-EC	01.06.KL18110621	25*30*19mm	--	Optional
	S-type Track	ASY-1617-MNN0500-MT	04.Q.04Q0353	500*17.4*16.7mm	--	Optional

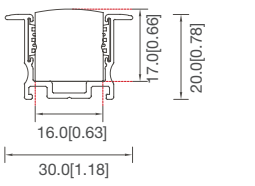
Picture	Item	Model No.	Part No.	Dimensions L*W*H	Free/Optional
	Aluminum clip	ASY-1617-A3NN0035-MT	1.06.JS20061902	35*18.7*19.37mm	Optional
	Aluminum Channel	ASY-1617-A1NN1000-MT	01.06.JS20061801	1000*18.7*19.37mm	Optional
	Aluminum Clip (with metal spring)	ASY-1617-A4NN0035-MT	01.06.JS20062001	35*21.2*19mm	Optional
	Aluminum channel (with metal spring)	ASY-1617-A2NN1000-MT	01.06.PJ19042211	1000*21.2*19mm	Optional
	Aluminum Channel (with silicone strip)	ASY-1617-A6NN0035-MT	04.Q.04Q0446	35*20*21mm	Optional
	Aluminum Channel (with silicone strip)(with wings)	ASY-1617-A7NN0035-MT	04.Q.04Q0448	35*20*30mm	Optional
	Free welding end cap (straight outlet)	ASY-NDF1617-F00NNH-EC	01.06.PJ21011406	49*22*23mm	Optional
	Free welding end cap	SY-NDF1617-F00NNX-EC	01.06.PJ21011412	45*22*23mm	Optional
	Free welding end cap (left outlet)	ASY-NDF1617-F00NNL-EC	01.06.PJ21011408	53*25*23mm	Optional
	Free welding end cap (right outlet)	ASY-NDF1617-F00NNR-EC	01.06.PJ21011407	53*25*23mm	Optional
	Free welding end cap (bottom outlet)	ASY-NDF1617-F00NNB-EC	01.06.PJ21011409	53*22*26mm	Optional
	Splicing connector 1 (IP65)	ASY-NDF1617-F00NNM-EC	01.06.PJ21011410	88*22*23mm	Optional
	Splicing connector 2	ASY-NDF1617-F01NNM-EC	01.06.PJ21011411	57*23*20mm	Optional
	Screws	PA3	01.07.022020A011	PA3*10mm	Optional
	Silicone Glue	WR-7516	01.10.0220000187	45g/pc	Optional



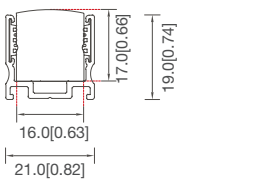
Aluminum channel (Aluminum clip)
ASY-1617-A1(A3)NNXXXX-MT



Aluminum channel (with metal spring)
ASY-1617-A2(A4)NNXXXX-MT

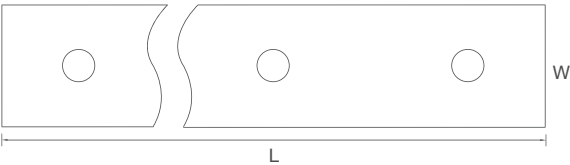


Aluminum channel with silicone strip (with wings)
ASY-1617-A7NNXXXX-MT



Aluminum channel with silicone strip (no-wings)
ASY-1617-A6NNXXXX-MT

Aluminum channel diagram

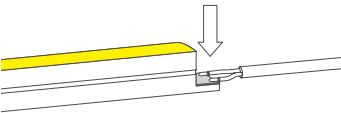


Name	L(mm)	W(mm)	Type
Aluminum clip	35	18.7	Optional
Installation set	35/1000	21.2	Optional
Aluminum channel	1000	18.7	Optional
Aluminum channel X	X	--	Customized

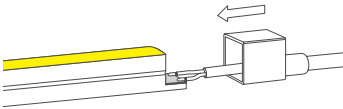
Note: The accessory quantity is changeable according to customers' needs.

INSTALLATION

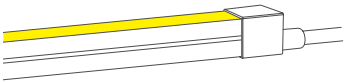
Front cap installation



Weld the wire to the PCB board.

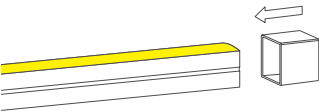


Filling the cap with glue, then install to the strip light.

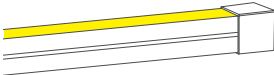


Wipe off the excess glue and wait to dry

Closing-end cap installation

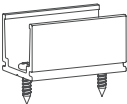


Filling the cap with glue, then install to the strip light.

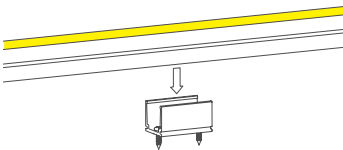


Wipe off the excess glue and wait to dry

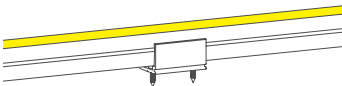
Aluminum channel installation



Fix the aluminum channel with screws

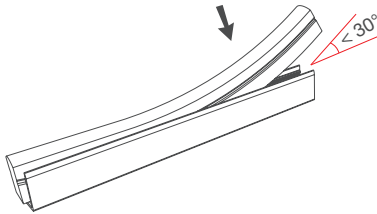


Press the strip into the channel

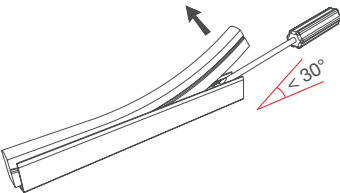


Finished

Installation



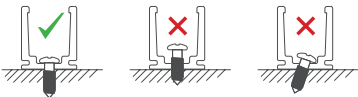
Removal



Press in/out gently; avoid excessive force; ensure one-time, smooth installation/removal.

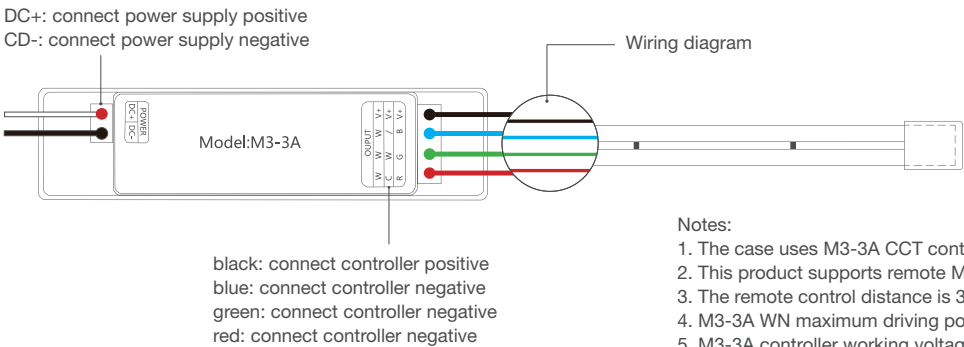
Notes:

- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please choose suitable operation steps according to the actual needs;
- During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
- More information, please feel free to consult us;



CONTROLLER WIRING DIAGRAM

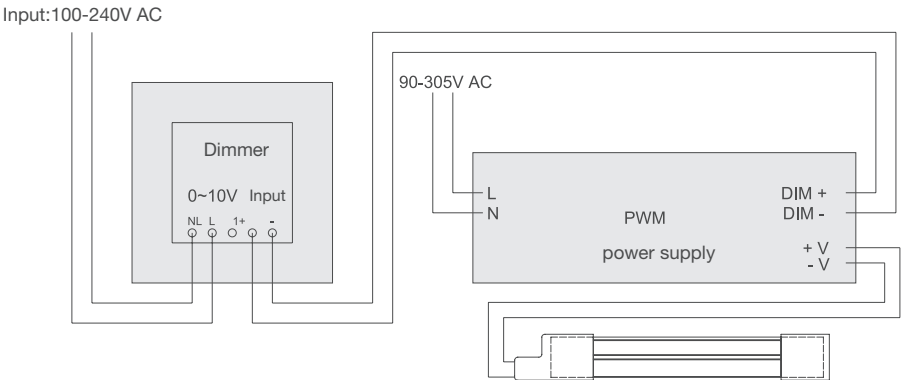
RGB Wiring Diagram



Notes:

1. The case uses M3-3A CCT controller;
2. This product supports remote M2 control;
3. The remote control distance is 30 meters;
4. M3-3A WN maximum driving power 72W(12V)/144W(24V);
5. M3-3A controller working voltage: DC12-24V

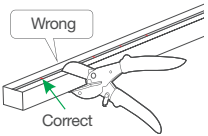
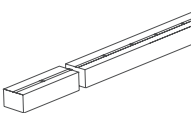
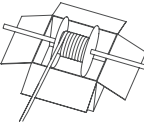
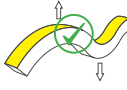
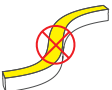
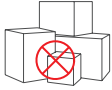
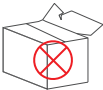
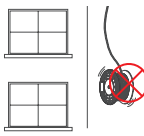
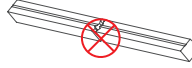
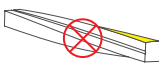
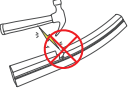
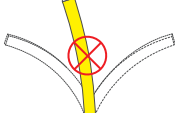
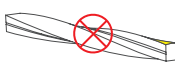
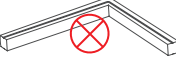
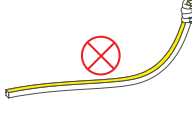
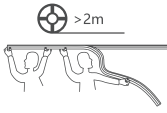
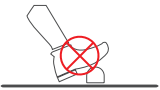
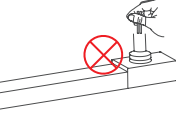
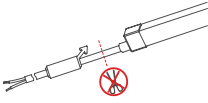
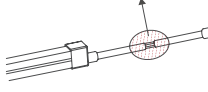
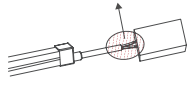
PTW Wiring Diagram



Notes:

1. The dimmer uses the E160P model;
2. The PWM power supply uses the PWM-120-24-BLANK model;

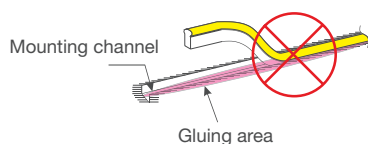
WARNING MARK

 Wrong Correct Cutting line marks	 Neat and smooth cut.	 Insert stick through reel on box for easy product access.	 Keep products neatly stacked.	 Top bending	 No side bending
 Do not pile randomly or too high.	 Do not violently unpack.	 No throwing from height.	 Ensure smooth and vertical cuts.	 Avoid twisting.	 Avoid deliberate damage to products.
 Avoid repeated bending to prevent circuit damage	 No twisting or kinking	 Avoid right-angle bends	 No swinging or pulling	 Product longer than 2m, at least two employees are required.	 No trampling
 Do not pull the outlet wire.	 No pulling	 Do not cut the wire connecting the waterproof ring to the product.	 Waterproofing is needed for wire connections and sections.	 Waterproofing is needed for device connections and wire cross-sections.	

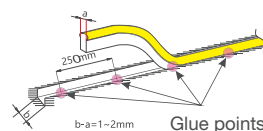
Note: □ There are cutting marks on the PCB; □ Please pay attention to above warnings during transportation and using;

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 waterproof and anti-corrosive treatment.
- During installation, if components are used, please refer to the relevant parts description and installation methods in the corresponding specification sheet.
- Ensure that there are channels or clips on the installation carrier to provide fixation.
- For IP68 product, it is not recommended for customers to cut it themselves; for IP67 product, customers may cut it themselves and seal it with adhesive to achieve IP65 rating
- It is not recommended to rely solely on glue for fixing the product; gluing serves only as auxiliary fixation.
- Considering the thermal expansion and contraction of the product, sufficient space must be reserved. It is recommended to have a maximum of four glue points per meter of product.



If using glue for extra fixation, avoid filling the mounting channel entirely, as excessive glue may hinder the release of thermal expansion and contraction stress in the product.



Apply glue only as auxiliary fixation. If gluing is necessary, it is recommended to have a maximum of four glue points per meter of product; the amount of glue should be controlled appropriately to ensure secure fixation.

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 or supplier, 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.

Version	Content	Date
A3.8	Update: add data of NDF1617-WN-PTW	2025-5-27

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