

LED NEON FLEX

NDF1617





Features

- Color options: Single color, WN , RGB, RGBW and PIXEL.
- Adopt high quality constant current components with stable and reliable performance.
- Top bending and easy to shape.
- Single color can not dimming (but when powered by Mean Well ELG/HLG series constant current/voltage adapters, it supports 0 - 2KHz PWM dimming.)
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NDF1617-Single color (112LEDs/m)	24V DC	115°	>80	2300K	927	54.7	17.2
			>80	2700K	898	53.1	
			>80	3000K	1122	64.1	
			>80	4000K	1150	68.9	
			>90	5200K	924	53.7	
			>80	6500K	1140	65.5	
NDF1617-Single color (112LEDs/m)	24V DC	115°	/	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	1208	69.1	
				3400K	1332	76.5	
				4000K	1353	77.5	
				5000K	1391	79.6	
				6000K	1347	77.3	
NDF1617-WN	24V DC	115°	>80	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°	/	6500K	/	/	4.3
				Red	61	12.2	4.3
				Green	142	28.4	4.3
				Blue	33	6.6	4.3
				RGBW	476	25.0	17.2
NDF1617-PIXEL (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
NDF1617-PIXEL (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

Other Parameters

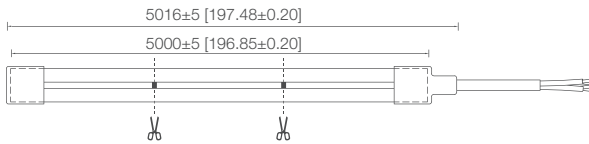
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1617-Single color	112	10000mm	62.5mm	-20~+60°C	-20~+70°C
NDF1617-Single color	140	10000mm	50.0mm		
NDF1617-WN	240	10000mm	50.0mm		
NDF1617-RGB	72	5000mm	83.3mm		
NDF1617-RGBW	72	5000mm	83.3mm		
NDF1617-PIXEL (RGB)	60	5000mm	100.0mm		
NDF1617-PIXEL (RGBW)	60	5000mm	100.0mm		

Notes:
 Single color: head-to-tail current drop rate is 10%
 PIXEL (RGB): IC(UCS5603A); Using MR-502 controller
 PIXEL (RGBW): Using DMX controller
 RGB/RGBW data is obtained when three/four LEDs are all lit

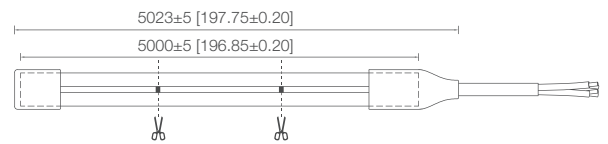
Profile Drawings

Unit: mm[inch]

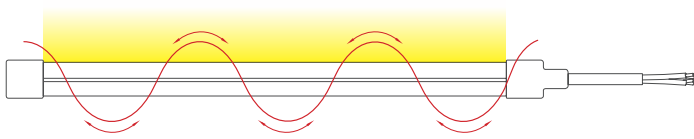
Glue Process (IP67)



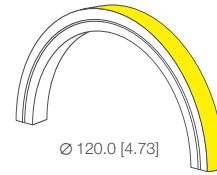
Molding pressed (IP68)



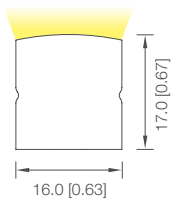
Bend direction



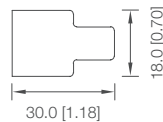
Bending Diameter



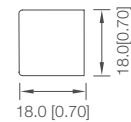
Sectional view



Front cap / Glue Process (IP67)



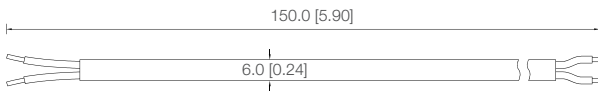
Closing End-cap / Glue Process (IP67)



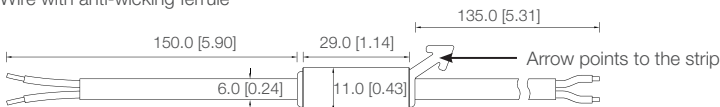
Note: support length customization within 12m

Wire Spec

General Wire



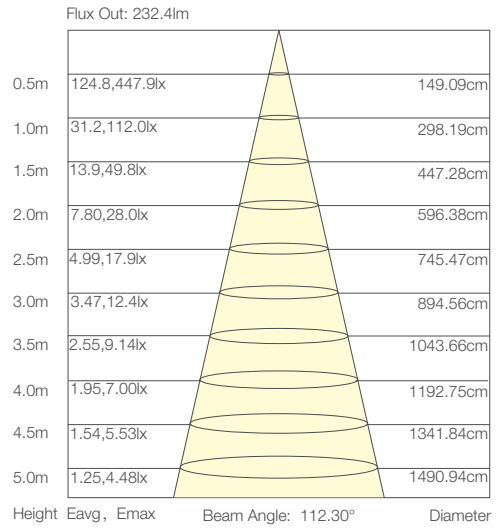
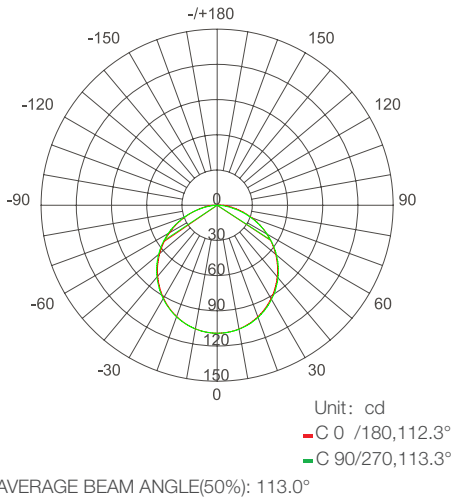
Wire with anti-wicking ferrule



Notes:
 - You can choose one of the above two wires.
 - 2/3/4/5 cores are available.
 - The wire length support customization.
 - The anti-wicking ferrule needs to be above water for any underwater applications. Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

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.	NDF1617-Single color (112LEDs/m)			NDF1617-Single color (140LEDs/m)	
Working Length (m)	1	5	10	1	10
Measured Current (A)	0.72	3.6	7.2	0.72	6.9
Rated Voltage (DC V)	24	24	24	24	24
Measured Power(W)	17.28	86.4	172.8	17.28	165.6
Recommended Power Supply (W)	30	100	250	24	220
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NDF1617-WN			NDF1617-RGB	
Working Length (m)	1	5	10	1	5
Measured Current (A)	0.6	3	8	0.72	3.24
Rated Voltage (DC V)	24	24	24	24	24
Measured Power(W)	14.4	72	144	17.28	77.76
Recommended Power Supply (W)	25	100	200	30	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

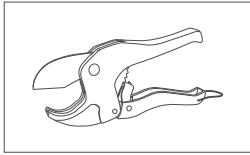
Model No.	NDF1617-RGB-R		NDF1617-RGB-G		NDF1617-RGB-B	
Working Length(m)	1	15	1	15	1	15
Measured Current (A)	0.21	2.84	0.24	3.24	0.24	3.24
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	5.04	68.16	5.76	77.76	5.76	77.76
Recommended Power Supply (W)	7.2	100	7.2	100	7.2	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NDF1617-RGBW		NDF1617-RGBW-R		NDF1617-RGBW-G	
Working Length(m)	1	5	1	20	1	20
Measured Current (A)	0.72	3.24	0.17	3.06	0.18	3.24
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	17.28	77.76	4.08	73.44	4.32	77.76
Recommended Power Supply (W)	30	100	7.2	100	7.2	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

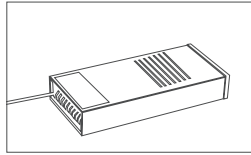
Model No.	NDF1617-RGBW-B		NDF1617-RGBW-W	
Working Length(m)	1	20	1	20
Measured Current (A)	0.19	3.42	0.21	3.78
Rated Voltage (DC V)	24	24	24	24
Measured Power(W)	4.56	82.08	5.04	90.72
Recommended Power Supply (W)	7.2	120	7.2	120
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NDF1617-PIXEL (RGB)		NDF1617-PIXEL (RGBW)	
Working Length(m)	1	5	1	5
Measured Current (A)	0.54	2.43	0.86	3.87
Rated Voltage (DC V)	24	24	24	24
Measured Power(W)	12.96	58.32	20.64	92.88
Recommended Power Supply (W)	20	80	30	120
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed

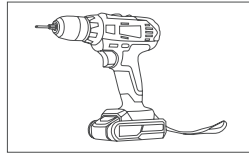
Products and Tools



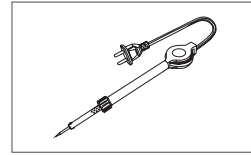
Cutter



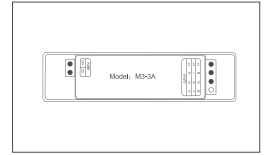
LED power supply



Electric drill



Electric iron



Controller (If needed)

Product accessories



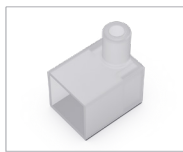
ASY-NDF1617-N00NNH-EC

Item: Front cap
 Dimensions L*W*H: 30*18*18mm
 Quantity (5/10m): 2-4pcs
 Free/Optional: Free



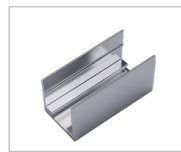
ASY-NDF1617-N00NNX-EC

Item: Closing End-cap
 Dimensions L*W*H: 18*19*18mm
 Quantity (5/10m): 2-4pcs
 Free/Optional: Free



ASY-NDF1617-N00NNS-EC

Item: Front cap(Side)
 Dimensions L*W*H: 25*30*19mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-A3NN0035-MT

Item: Aluminum clip
 Dimensions L*W*H: 35*18.7*19.37mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-A4NN0035-MT

Item: Aluminum track
 Dimensions L*W*H: 35*21.2*19mm
 Quantity (5/10m): --
 Free/Optional: Optional



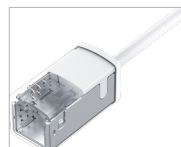
ASY-NDF1617-A1NN1000-MT

Item: Aluminum Channel
 Dimensions L*W*H: 1000*18.7*19.37mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-MNN0500-MT

Item: S-type Track
 Dimensions L*W*H: 500*17.84*17.22mm
 Quantity (5/10m): --
 Free/Optional: Optional

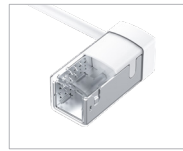


ASY-NDF1617-F00NNH-EC (IP65)

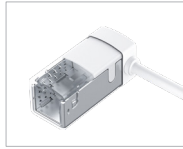
Item: Soldering-free end cap (straight outlet)
 Dimensions L*W*H: 49*22*23mm
 Quantity (5/10m): --
 Free/Optional: Optional



SY-NDF1617-F00NNX-EC (IP65)
 Item: Soldering-free end cap (non-outlet)
 Dimensions L*W*H: 45*22*23mm
 Quantity (5/10m): --
 Free/Optional: Optional



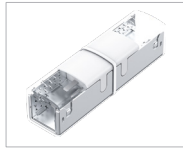
ASY-NDF1617-F00NNL-EC (IP65)
 Item: Soldering-free end cap (left outlet)
 Dimensions L*W*H: 53*25*23mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-F00NNR-EC (IP65)
 Item: Soldering-free end cap (right outlet)
 Dimensions L*W*H: 53*25*23mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-F00NNB-EC (IP65)
 Item: Soldering-free end cap (bottom outlet)
 Dimensions L*W*H: 53*22*26mm
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-F00NNM-EC (IP65)
 Item: Soldering-free connector 1
 Dimensions L*W*H: 88*22*23mm
 Quantity (5/10m): --
 Free/Optional: Optional



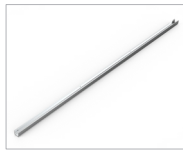
ASY-NDF1617-F01NNM-EC (IP54)
 Item: Soldering-free connector 2
 Dimensions L*W*H: 57*23*20mm
 Quantity (5/10m): --
 Free/Optional: Optional



PA3
 Item: Screws
 Dimensions L*W*H: PA3*10mm
 Quantity (5/10m): --
 Free/Optional: Optional

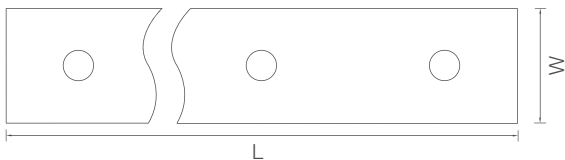


WR-7516
 Item: Silicone Glue
 Dimensions: 45g/pc
 Quantity (5/10m): --
 Free/Optional: Optional



ASY-NDF1617-A2NN1000-MT
 Item: Aluminum channel set
 Dimensions L*W*H: 1000*21.2*19mm
 Quantity (5/10m): --
 Free/Optional: Optional

Accessories diagram



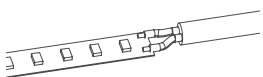
Name	L(mm)	W(mm)	Type
Aluminum clip	35	18.7	Optional
Installation set	35	21.2	Optional
Aluminum channel	1000	18.7	Optional
Aluminum channel X	X	--	Customized

Note:

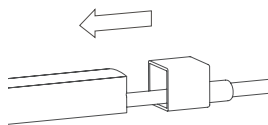
1. The quantity of accessories subject to actual needs;

Installation

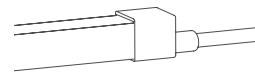
Front cap installation



Weld the wire to the PCB board.

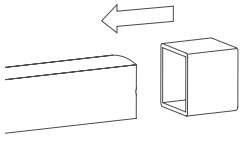


Filling the cap with glue, then install to the strip light.

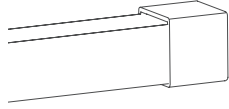


Wipe off the excess glue and wait to dry.

Closing end-cap installation

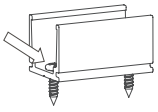


Filling the cap with glue, then install to the strip light.

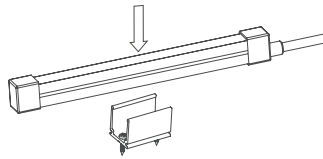


Wipe off the excess glue and wait to dry.

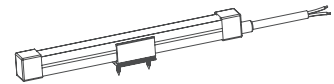
Aluminum channel installation



Fix the aluminum channel with screws



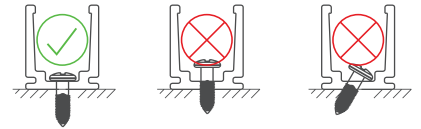
Press the strip into the channel



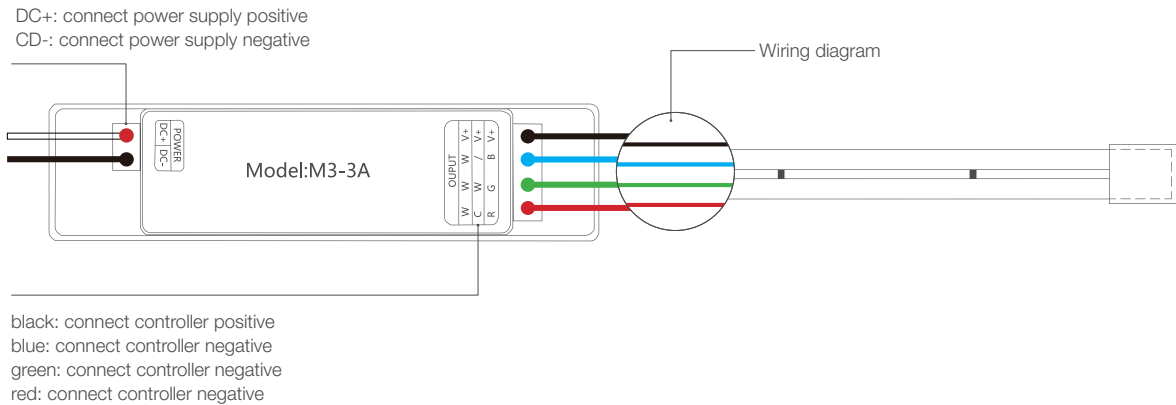
Finished

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



Notes:

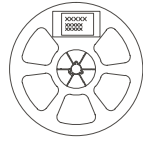
1. The case uses M3-3A CCT controller;
2. This product supports remote M2 control;
3. The remote control distance is 30 meters;
4. M3-3A WN maximum driving power 72W(12V)/144W(24V);
5. M3-3A controller working voltage: DC12-24V

Packaging Information

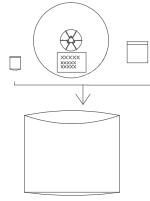
Packaging method - 5m standard run



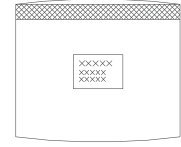
Roll the product to a reel



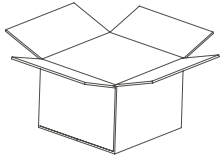
Label the reel;



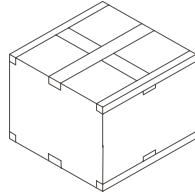
Put reel, accessory bag and desiccant together into a foil bag;



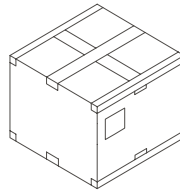
Label the foil bag;



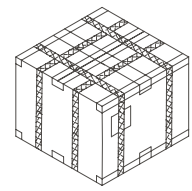
Put the foil bags into a carton box;



Seal the carton box;

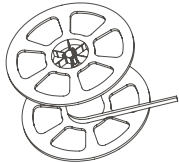


Label the carton box;

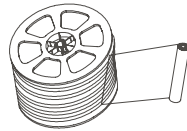


Use packing belt to pack. Add edge protectors if necessary

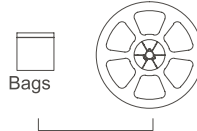
Packaging method - 10m standard run



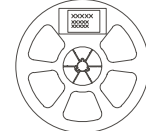
Roll the product to a reel



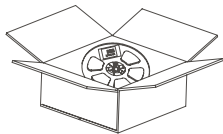
Wrap it with PE film



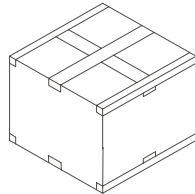
Put the reel and accessories bag on the work table



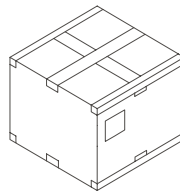
Label the reel;



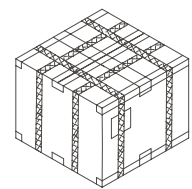
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

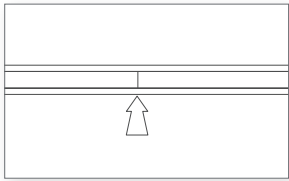
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1617-Single color	10000*16*17	480*445*370	10	6	19.25 (1± 10%)
NDF1617-WN	10000*16*17	480*445*370	10	6	19.45 (1± 10%)
NDF1617-RGB	5000*16*17	480*445*370	5	12	20.15 (1± 10%)
NDF1617-RGBW	10000*16*17	390*390*325	10	3	15.50 (1± 10%)
NDF1617-PIXEL (RGB)	5000*16*17	480*445*370	5	12	19.20 (1± 10%)
NDF1617-PIXEL (RGBW)	5000*16*17	480*445*370	5	12	19.55 (1± 10%)

- 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.

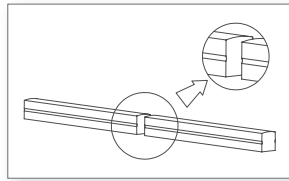
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	
		Lifting strength test	Fix the sample on the aluminum clip or channel, place the strip side down for 1 hour, and observe whether the light strip falls off.	

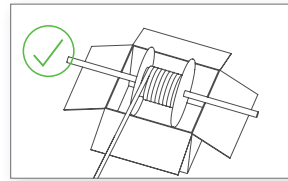
Warning Mark



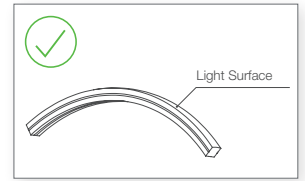
Cuttable identifier



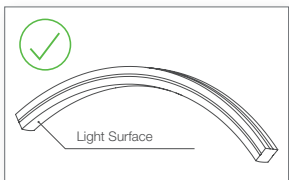
Neat and smooth cut



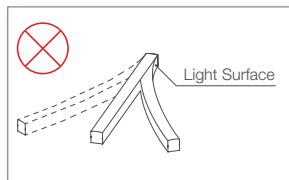
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



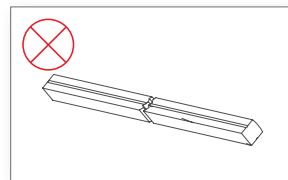
use in convex direction



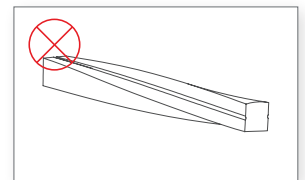
Use in concave direction



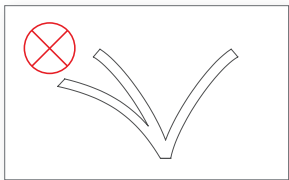
Side bending



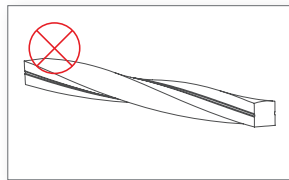
Do not make irregular cuts.



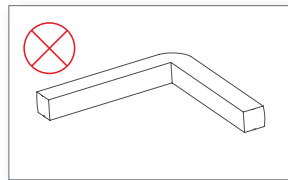
Do not use in distortions



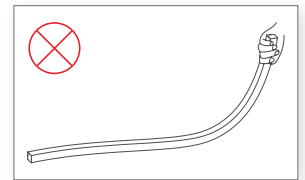
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

Note:

1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

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.

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.

Statements and Recycling

Packaging information

- 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.
-

BLUEVIEW ELEC-OPTIC TECH CO.,LTD

Tel: +86-28-8148 0011
 Fax: +86-28-8148 1258

Web.: www.blueviewled.com
 Email: sales@blueviewled.com

Add.: No. 1000, Section 2, Konggang 2nd Road, Shuangliu, Chengdu 610207, Sichuan, CHINA