

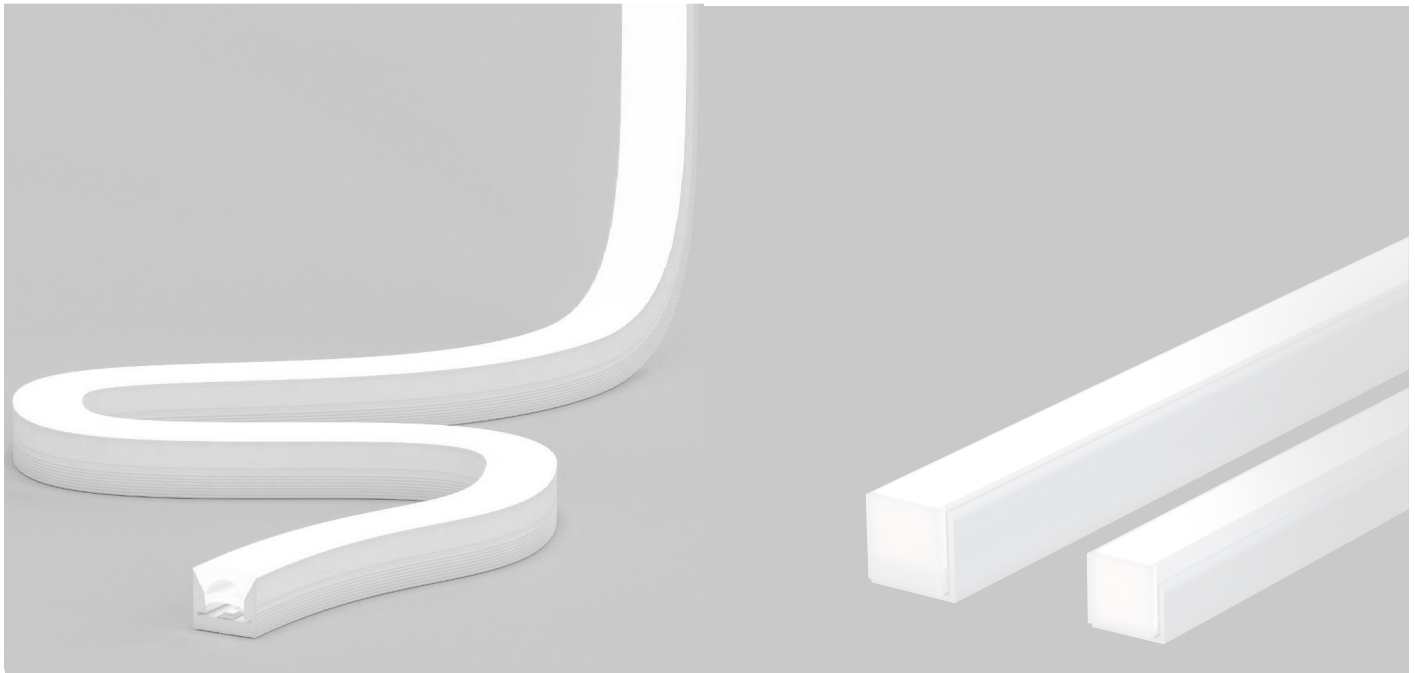
Type:_____ Qty:_____

Project:_____



HELIUM LYTE

NEON RGBW



Design Features:

- The rigid PCB design in a plastic shell, allowing for any bending or twisting without damaging the LEDs, PCB, or electronic components.
- Steel wires powered, long run length, strong tensile strength and 3D bending.
- Available in both top and side bending, perfectly fixing for many irregular structures.
- PCB designed in parallel with function of skipping the broken cuttable unit.
- Single-color supports PWM dimming up to 10kHz.
- Patented product. Counterfeiting prohibited.
- Certified by UL, TUV-CE, RoHS.
- 5 Year warranty.



Warranty



Wet Rated



NEON RGBW

Specs Code:

FIXTURE ID 1	LUMENS/ WATT (Per Feet) 2	LOCATION 3	LED OPTION 4
Neon Flex RGBW NF-RGBW	167 Lumens / 5.9Watt L167/5.9W	Indoor ID Outdoor OD	RGBW(27K) RGBW27K
Neon Flex RGBW-SPI NF-RGBW-SPI	98 Lumens / 5.4Watt L98/5.4W		RGBW(30K) RGBW30K
Neon Flex RGBW-DMX NF-RGBW-DMX	126 Lumens / 6Watt L126/6W		RGBW(35K) RGBW35K
			RGBW(40K) RGBW40K
			RGBW(50K) RGBW50K
			RGBW(65K) RGBW65K
TAPE WIDTH 5	VOLTAGE 6	LENGTH 7	
20 MM WIDE W20	24 VOLT 24V	LENGTH XX XX FT	

Order Guide:

1

2

3

4

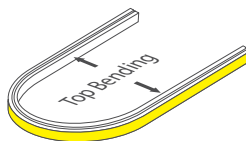
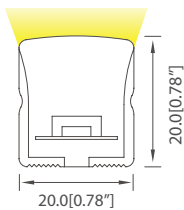
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*Example : NF-RGBW-L167/5.9W-OD-RGBW27K-W20-24V-XXFT

Product Details:



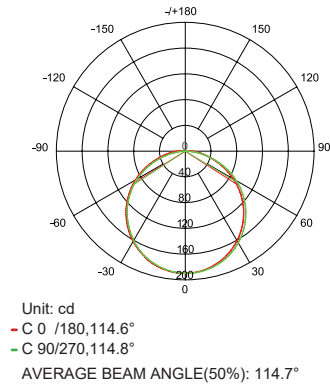
*For details please refer to the other parameter table.



NEON RGBW

Photometric:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Note: For other data, please consult sales rep

Lighting Chart:

NF-RGBW

MODEL NO.	LUMENS/WATT (Per Feet)	EFFICIENCY	CCT	MIN. SECTION
NF-RGBW27K-5.9	167 Lumens / 5.9Watt	28.30 lm/w	2700K	1.64"(41.67mm)
NF-RGBW30K-5.9	167 Lumens / 5.9Watt	28.30 lm/w	3000K	1.64"(41.67mm)
NF-RGBW35K-5.9	173 Lumens / 5.9Watt	29.32 lm/w	3500K	1.64"(41.67mm)
NF-RGBW40K-5.9	179 Lumens / 5.9Watt	30.33 lm/w	4000K	1.64"(41.67mm)
NF-RGBW50K-5.9	179 Lumens / 5.9Watt	30.33 lm/w	5000K	1.64"(41.67mm)
NF-RGBW65K-5.9	173 Lumens / 5.9Watt	29.32 lm/w	6500K	1.64"(41.67mm)





NEON RGBW

Lighting Chart:

NF-RGBW-SPI

MODEL NO.	LUMENS/WATT (Per Foot)	EFFICIENCY	CCT	MIN. SECTION
NF-RGBW27K-5.4	98.7 Lumens / 5.4Watt	18.27 lm/w	2700K	1.96"(50mm)
NF-RGBW30K-5.4	98.7 Lumens / 5.4Watt	18.27 lm/w	3000K	1.96"(50mm)
NF-RGBW35K-5.4	109.7 Lumens / 5.4Watt	20.31 lm/w	3500K	1.96"(50mm)
NF-RGBW40K-5.4	109.7 Lumens / 5.4Watt	20.31 lm/w	4000K	1.96"(50mm)
NF-RGBW50K-5.4	109.7 Lumens / 5.4Watt	20.31 lm/w	5000K	1.96"(50mm)
NF-RGBW65K-5.4	104.2 Lumens / 5.4Watt	19.29 lm/w	6500K	1.96"(50mm)

NF-RGBW-DMX

MODEL NO.	LUMENS/WATT (Per Foot)	EFFICIENCY	CCT	MIN. SECTION
NF-RGBW27K-6	114 Lumens / 6Watt	19 lm/w	2700K	1.96"(50mm)
NF-RGBW30K-6	126 Lumens / 6Watt	21 lm/w	3000K	1.96"(50mm)
NF-RGBW35K-6	120 Lumens / 6Watt	20 lm/w	3500K	1.96"(50mm)
NF-RGBW40K-6	114 Lumens / 6Watt	19 lm/w	4000K	1.96"(50mm)
NF-RGBW50K-6	126 Lumens / 6Watt	21 lm/w	5000K	1.96"(50mm)
NF-RGBW65K-6	126 Lumens / 6Watt	21 lm/w	6500K	1.96"(50mm)



Warranty



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NEON RGBW

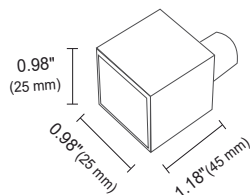
Technical Details:

Material	High Strength Silicon Body
Size	Width - 0.78" (20mm) X Any Length
Min. Section	RGBW - 1.64"(41.67mm) / RGBW-SPI/DMX - 1.96"(50mm)
Lumens	Upto 179lm/w - per feet.
Wattage	RGBW - 5.9W / RGBW-SPI - 5.4W / RGBW-DMX - 6W- per feet.
Efficacy	Upto 30.33 Lm/W
Max Run Length	Upto 10 Mtr.
CRI	-
CCT	RGBW(18K/22K/27K/30K/35K/40K/50K/60K/65K)
LED	SMD
Beam Angle	115.6°
Voltage	24V DC
Operating Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Certification	ETL LISTED / UL LISTED / WET RATED

Channel Details:



HL-FC - FRONT CAP



MODEL	QTY.

HL-FC

1N - 1 Nos.

2N - 2 Nos.

XXN - XX Nos.



Warranty



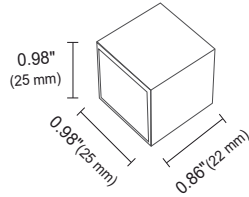
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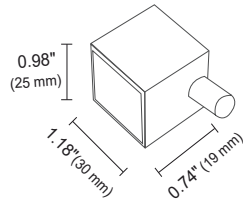
NEON RGBW

Channel Details:



HL-CEC - CLOSING END CAP

MODEL	QTY.
HL-CEC	1N - 1 Nos. 2N - 2 Nos. XXN - XX Nos.



HL-FCB/S - FRONT CAP BOTTOM / SIDE OUTLET

MODEL	QTY.
HL-FCS	1N - 1 Nos. 2N - 2 Nos. XXN - XX Nos.



HL-ALCL - ALUMINIUM CLIP WITH SILICONE STRIP (25 X 23 X 35mm)

MODEL	QTY.
HL-ALCL	1N - 1 Nos. 2N - 2 Nos. XXN - XX Nos.



HL-ALCH -ALUMINIUM CHANNEL WITH SILICONE STRIP (30 X 23 X 1000mm)

MODEL	LENGTH
HL-ALCH	39 IN - 39 Inch XX IN - XXInch



HL-S-TRK -S-TYPE TRACK (22 X 13.7 X 1000mm)

MODEL	LENGTH
HL-S-TRK	39 IN - 39 Inch XX IN - XXInch



Warranty



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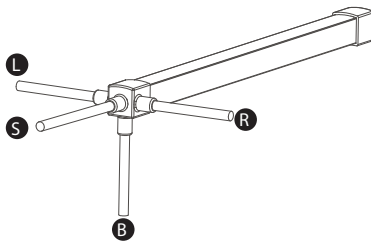


NEON RGBW

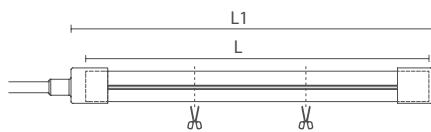
Profile & End Cap Details:

Molding pressed (IP68)

End Cap - Outlet Direction



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



Molding pressed (IP68)

Model No.	L (mm / inch)	L1 (mm / inch)
NF - RGBW/SPI/DMX	10000±10 / 393.70±0.39	10011±10 / 394.13±0.39

Notes:

- Customizable lengths are multiples of the min cuttable length.
- Considering the voltage dropping, the length of the outlet wire should short than 1m.



Warranty



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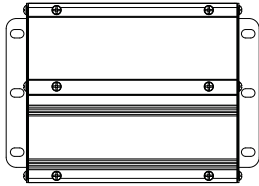
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NEON RGBW

Driver Details:

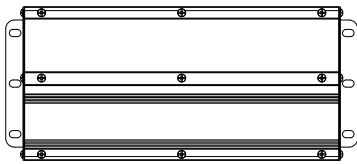
HL30AT-1W24V-BW



150 x 106 x 41.5mm

MODEL	WATTAGE	CONTROL	OUTPUT	CLASS
HL	30 - 30 Watt	AT-1W CV driver with Triac & 0-10V dimming capabilities - 1 Channel	24V - 24 Volt	BW

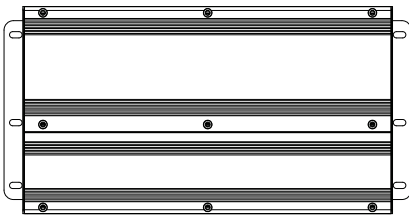
HL60AT-1W24V-BW



244 x 70 x 41.5mm

MODEL	WATTAGE	CONTROL	OUTPUT	CLASS
HL	60 - 60 Watt 96 - 96 Watt	AT-1W - CV driver with Triac & 0-10V dimming capabilities - 1 Channel	24V - 24 Volt	BW

HL192AT-2W24V-BW



260 x 132 x 52mm

MODEL	WATTAGE	CONTROL	OUTPUT	CLASS
HL	192 - 192 Watt 180 - 180 Watt 288 - 288 Watt	AT-2W - CV driver with Triac & 0-10V dimming capabilities - 2 Channel AT-3W - CV driver with Triac & 0-10V dimming capabilities - 3 Channel	24V - 24 Volt	BW

MR502 - SPI / DMX



MODEL	PROTOCOL
MR502	SPI - SPI Controller DMX - DMX Controller

- See next page for Bluetooth Casambi drivers.



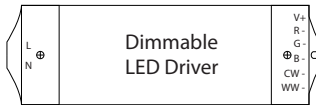


NEON RGBW

Driver Details:

KVB-XX060-XC-P

CASAMBI



192.5 x 62 x 24mm

MODEL	OUTPUT	WATTAGE	CONTROL	CLASS
KVB	12V - 12 Volt 24V - 24 Volt 48V - 48 Volt	060 - 60 Watt	1C/DW 2C/CCT 3C/RGB 4C/RGBW 5C/RGBCW	P*

KVB-XX096-XC-A

CASAMBI



196 x 69.8 x 42mm

MODEL	OUTPUT	WATTAGE	CONTROL	CLASS
KVB	24V - 24 Volt 48V - 48 Volt	096 - 96 Watt 100 - 100 Watt 120 - 120 Watt	1C/DW 2C/CCT 3C/RGB 4C/RGBW 5C/RGBCW	A*

KVB-XX150-XC-A

CASAMBI

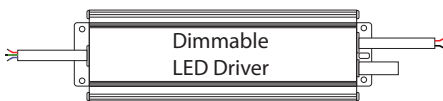


279 x 78 x 25.1mm

MODEL	OUTPUT	WATTAGE	CONTROL	CLASS
KVB	12V - 12 Volt 24V - 24 Volt 36V - 36 Volt 48V - 48 Volt	150 - 150 Watt 200 - 200 Watt	1C/DW 2C/CCT 3C/RGB 4C/RGBW 5C/RGBCW	A*

KVB-XX300-XC-A

CASAMBI



290.5 x 78 x 25.1mm

MODEL	OUTPUT	WATTAGE	CONTROL	CLASS
KVB	24V - 24 Volt 36V - 36 Volt 48V - 48 Volt	300 - 300 Watt	1C/DW 2C/CCT 3C/RGB 4C/RGBW 5C/RGBCW	A*

* Recommended Installation - Drivers can be stored into maintenance hole of the enclosure for easy access.

CLASS - P* UL standard for safety & performance of LED drivers (includes protection features)

CLASS - A* EMI compliance for commercial/industrial use (higher emission allowed)



Warranty



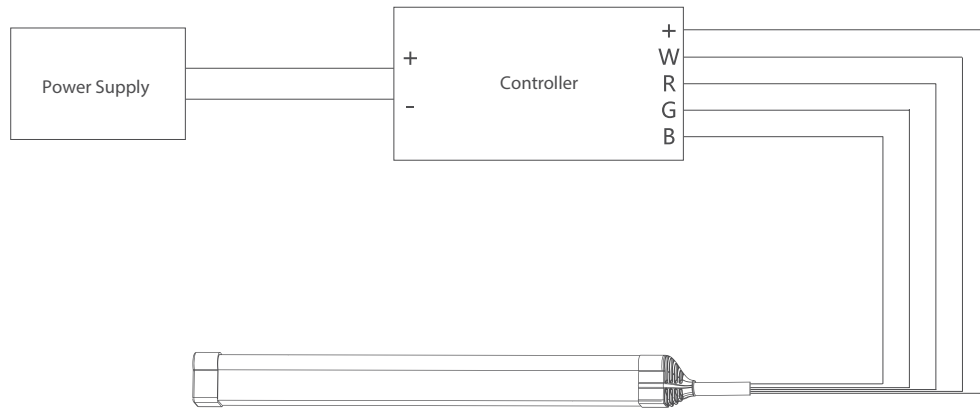
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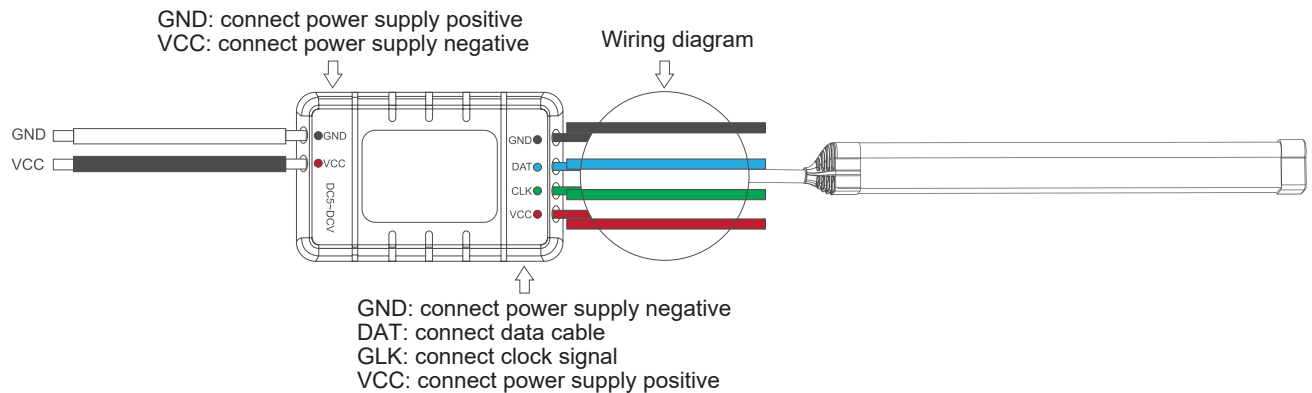
Controller Wiring Diagram:

RGBW Strip Wiring



Note : The case uses M8+M4-5A controller;

Pixel Strip Wiring - SPI Controller



Notes:

1. For large projects: MR-3F12B + MR-228A (main + sub-controller); for small projects: MR-328A (all-in-one controller);
2. The diver IC is UCS7604.



Warranty



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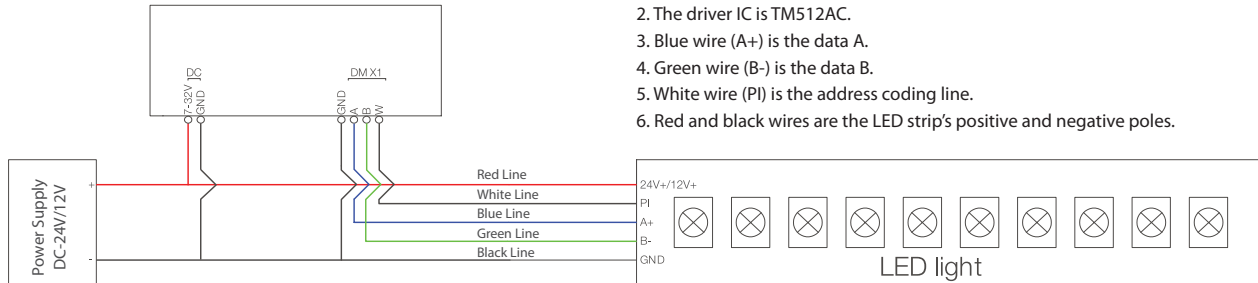


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NEON RGBW

Controller Wiring Diagram:

Pixel Strip Wiring - DMX Controller



Notes:

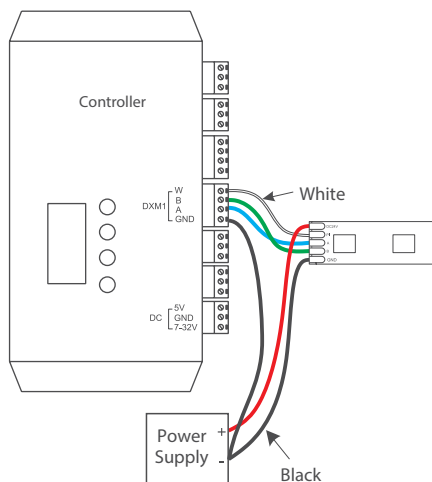
1. This case uses the MR-502 controller.
2. The driver IC is TM512AC.
3. Blue wire (A+) is the data A.
4. Green wire (B-) is the data B.
5. White wire (PI) is the address coding line.
6. Red and black wires are the LED strip's positive and negative poles.

No.	Controller port	Definition	Wire color	LED product port
1	GND	Negative (-)	Black	GND
2	A	Data A	Blue	A+
3	B	Data B	Green	B-
4	W	Address coding line	White	PI
5	7-32V	Positive (+)	Red	+24V / 12V

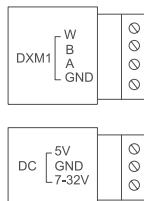
Notes:

1. Refer to the figure above for wiring
2. If the controller supports AB bus coding, the white line (PI) can be disconnected;
3. If the controller port is different from the sample, please consult the engineer for details;
4. The series of products have two working voltage;

Pixel Strip Wiring - Method 3



Wiring sequence:



Notes:

1. For large projects: MR-3F12B+MR-228DW (main + sub-controller); for small projects: MR-328DW (all-in-one controller).
2. The driver IC is UCS512C4.



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NEON RGBW

Other Parameters:

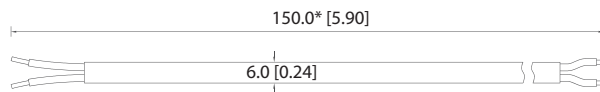
Model No.	LED Qty (pcs/m)	Dimension (W*H)	Max Run	Min. Cutting Unit	Min. Bending Diameter	Min. Bending Diameter	
NF-RGBW-5.9	72	20*20mm	10m	16.67mm	200mm (Top Bending)	300mm (Side Bending)	
NF-RGBW-SPI-5.4	60		20m	20.83mm			
NF-RGBW-DMX-6	60						

Recommended Power Supply Upon Working Length:

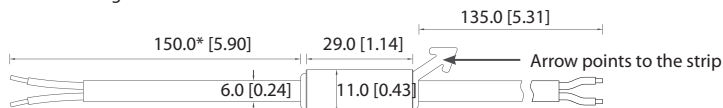
Model No.	Working Length	Current	Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
NF-RGBW-5.9	1m	0.82A	DC 24V	19.58W	25W	Single Feed
	10m	7.4A		177.6W	240W	
NF-RGBW-SPI-5.4	1m	0.75A	DC 24V	18W	25W	Single Feed
	10m	7.2A		172.8W	240W	
NF-RGBW-DMX-6	1m	0.48A	DC 24V	18W	25W	Single Feed
	10m	7.2A		177.6W	240W	

Wire Specification:

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.

