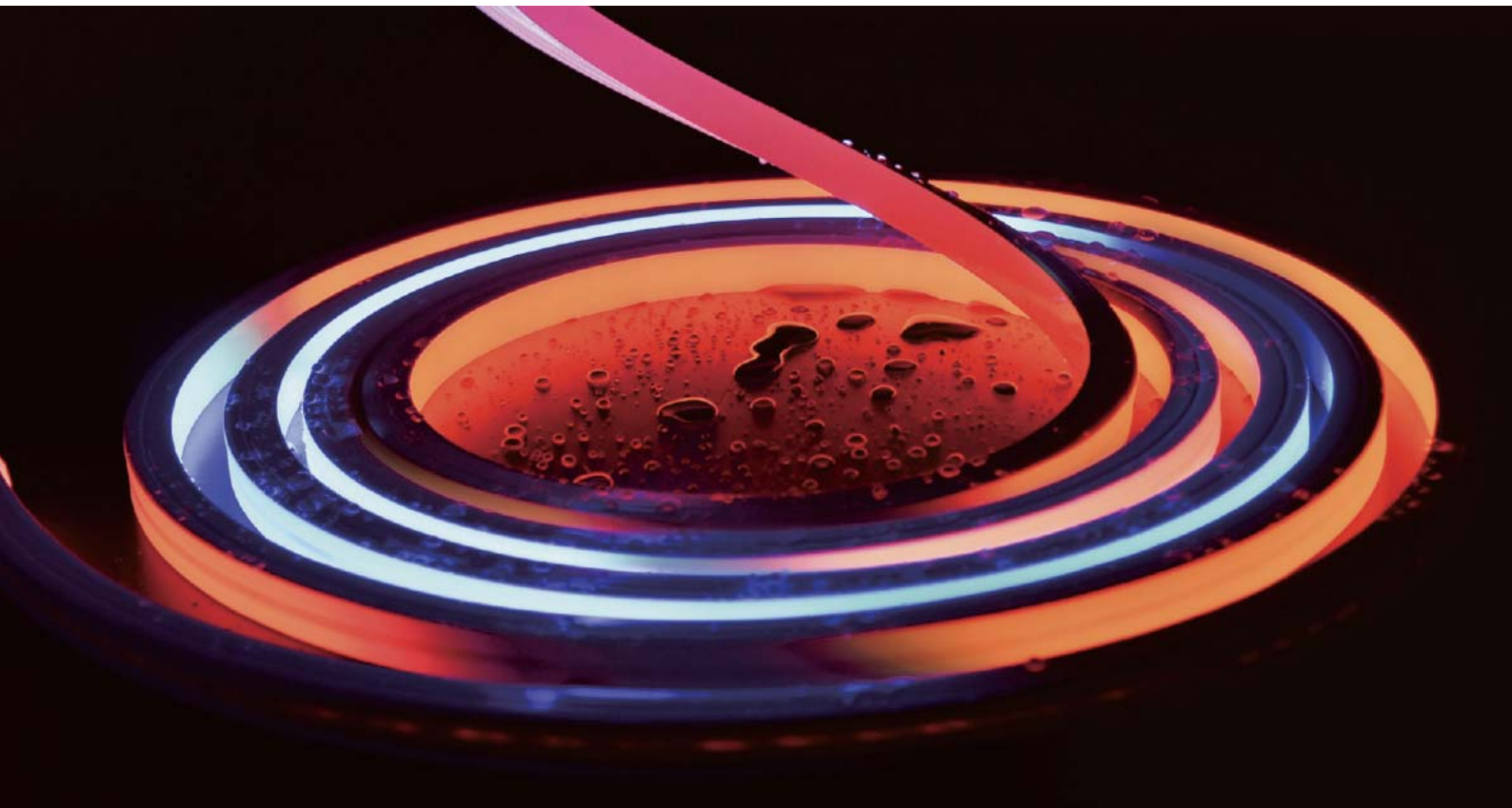




LED NEON FLEX SPECIFICATION

DMX512 & SPI Addressable Neon Flex



Note: LEDYI may change product specifications and installation guidance without prior notice.

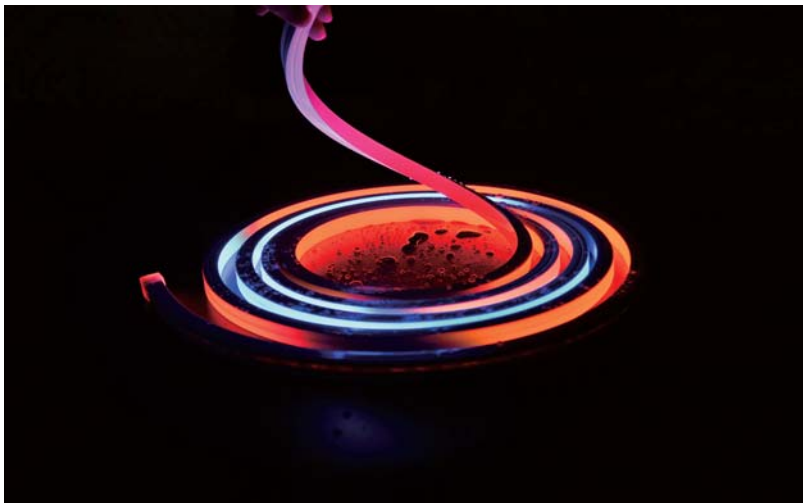


SPI (Single data cable)

Simple application, only need a single data cable can complete the transmission of data.

SPI (Dual data cable)

With dual data cable, the main data cable can be automatically switched to the standby data cable when the fault occurs, enhance the reliability of data transmission, which is also called breakpoint resume transmission.



DMX512

Compatible with international standard protocol DMX512 (1990). Adopting signal differential transmission mode, to ensure stronger anti-interference ability and longer transmission distance.

Product List

Model	Voltage (V)	Power (W/M)	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	IC Model	Page
NS-T1615-RGB-WS2818	DC24V	12	262	21.8	8	125	UCS2603 WS2818	03
NS-T1615-RGBW-UCS2904	DC24V	14.5	342	23.6	8	125	UCS2904	
NS-T1615-RGB-DMX512	DC24V	12	266	22.2	8	125	UCS512C2L	
NS-T1615-RGBW-DMX512	DC24V	15	329	21.9	8	125	UCS512C2L	
NS-S1220-RGB-WS2818	DC24V	12	159	13.3	8	125	UCS2603 WS2818	05
NS-S1220-RGBW-UCS2904	DC24V	14.5	218	15.0	8	125	UCS2904	
NS-S1220-RGB-DMX512	DC24V	12	161	13.4	8	125	UCS512C2L	
NS-S1220-RGBW-DMX512	DC24V	15	211	14.1	8	125	UCS512C2L	
NS-S1225-RGB-WS2818	DC24V	12	145	12.1	8	125	UCS2603 WS2818	07
NS-S1225-RGBW-UCS2904	DC24V	14.5	200	13.8	8	125	UCS2904	
NS-S1225-RGB-DXM512	DC24V	12	148	12.3	8	125	UCS512C2L	
NS-S1225-RGBW-DXM512	DC24V	15	208	13.9	8	125	UCS512C2L	
NS-T1212-RGB-WS2811	DC24V	12.5	266	21.3	10	100	WS2811	09
NS-S0612-RGB-WS2811	DC24V	12.5	162	13.0	10	100	WS2811	10
NS-S0817-RGB-WS2811	DC24V	12.5	152	12.2	10	100	WS2811	11
NS-T1010-RGB-WS2811	DC24V	12.5	304	24.3	10	100	WS2811	12
NS-D16-RGB-WS2811	DC24V	12.5	294	23.5	10	100	WS2811	13
NS-S0612D-RGB-WS2811	DC24V	12.5	266	21.3	10	100	WS2811	14
NS-ND25-RGB-WS2811	DC24V	25	474	19	10	100	WS2811	15



Product Features

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Unique optical light distribution structure design, uniform lighting surface and no shadow.

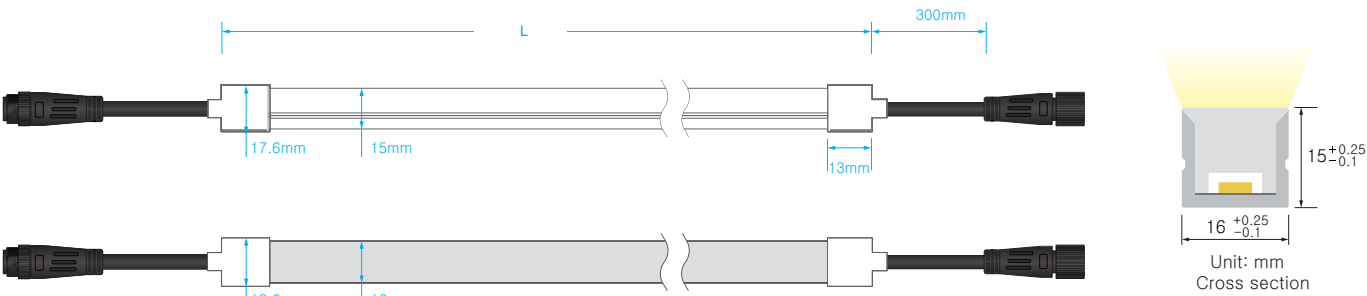
IP67 protection level, salt solution resistance, weak acid and alkali corrosion and UV.

Excellent toughness, simple and stylish appearance, delicate and unique.

3 years warranty, working life ≥30000 hours;



Dimension structure



Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm	● ● ●	SPI (Single data cable): Red V+, Green DI/DO, Black V-
		OD : 5.5mm	● ● ● ●	SPI (Dual data cable) : Red V+, Green BI/BO, Blue DI/DO, Black V-
		OD : 5.5mm	● ● ● ○ ●	DMX512 : Red V+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-
Silicone Cable		OD : 5.0mm	● ● ●	SPI : Red V+, Green DI/DO, Black V-
		OD : 6.0mm	● ● ● ●	Breakpoint Transmission : RedV+, Green BI/BO, Blue DI/DO, Black V-
		OD : 6.0mm	● ● ● ○ ●	DMX512 : RedV+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-



RGB (NS-T1615-RGB-WS2818)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	5	R	48	9.6	8	125	SPI (Dual data cable)	UCS2603/WS2818
	5	G	184	36.8				
	5	B	32	6.4				
	12	RGB	262	21.8				

RGBW (NS-T1615-RGBW-UCS2904)

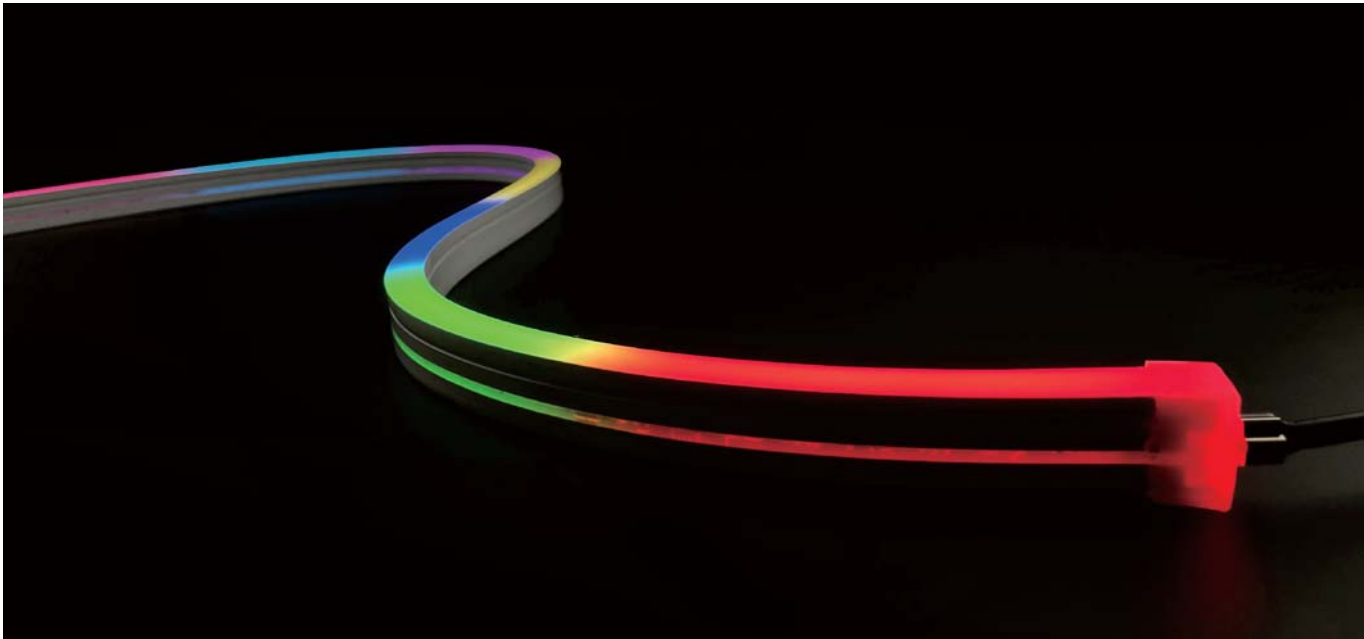
Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	42	8.8	8	125	SPI (Single data cable)	UCS2904
	4.8	G	117	24.4				
	4.8	B	36	7.5				
	4.8	W(4000K)	162	33.8				
	14.5	RGBW	342	23.6				

RGB (NS-T1615-RGB-DMX512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	51	10.6	8	125	DMX512	UCS512C2L
	4.8	G	191	39.8				
	4.8	B	32	6.7				
	12	RGB	266	22.2				

RGBW (NS-T1615-RGBW-DMX512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	44	9.2	8	125	DMX512	UCS512C2L
	4.8	G	119	24.8				
	4.8	B	34	7.1				
	4.8	W(4000K)	153	31.9				
	15	RGBW	329	21.9				

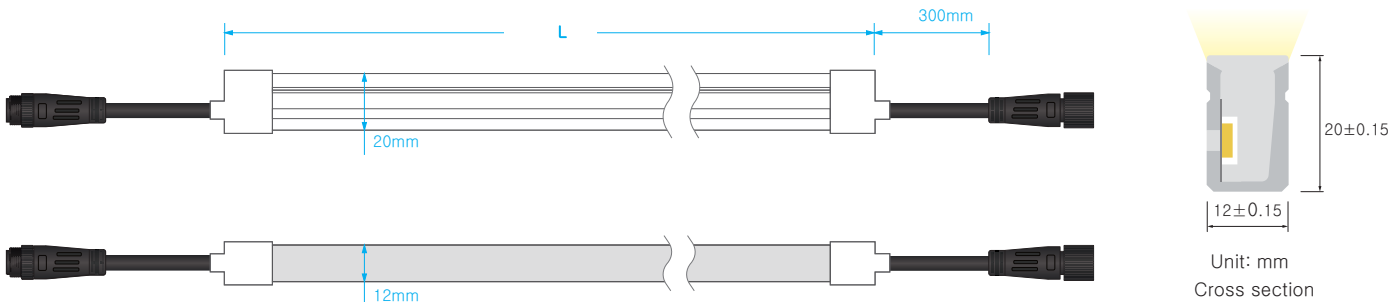


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Dimension structure



Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm	● ● ●	SPI (Single data cable): Red V+, Green DI/DO, Black V-
		OD : 5.5mm	● ● ● ●	SPI (Dual data cable) : Red V+, Green BI/BO, Blue DI/DO, Black V-
		OD : 5.5mm	● ● ● ● ●	DMX512 : Red V+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-
Silicone Cable		OD : 5.0mm	● ● ●	SPI : Red V+, Green DI/DO, Black V-
		OD : 6.0mm	● ● ● ●	Breakpoint Transmission : RedV+, Green BI/BO, Blue DI/DO, Black V-
		OD : 6.0mm	● ● ● ● ●	DMX512 : RedV+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-



RGB (NS-S1220-RGB-WS2818)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	5	R	28	5.6	8	125	SPI (Dual data cable)	UCS2603/WS2818
	5	G	110	22.1				
	5	B	20	4.0				
	12	RGB	159	13.2				

RGBW (NS-S1220-RGBW-UCS2904)

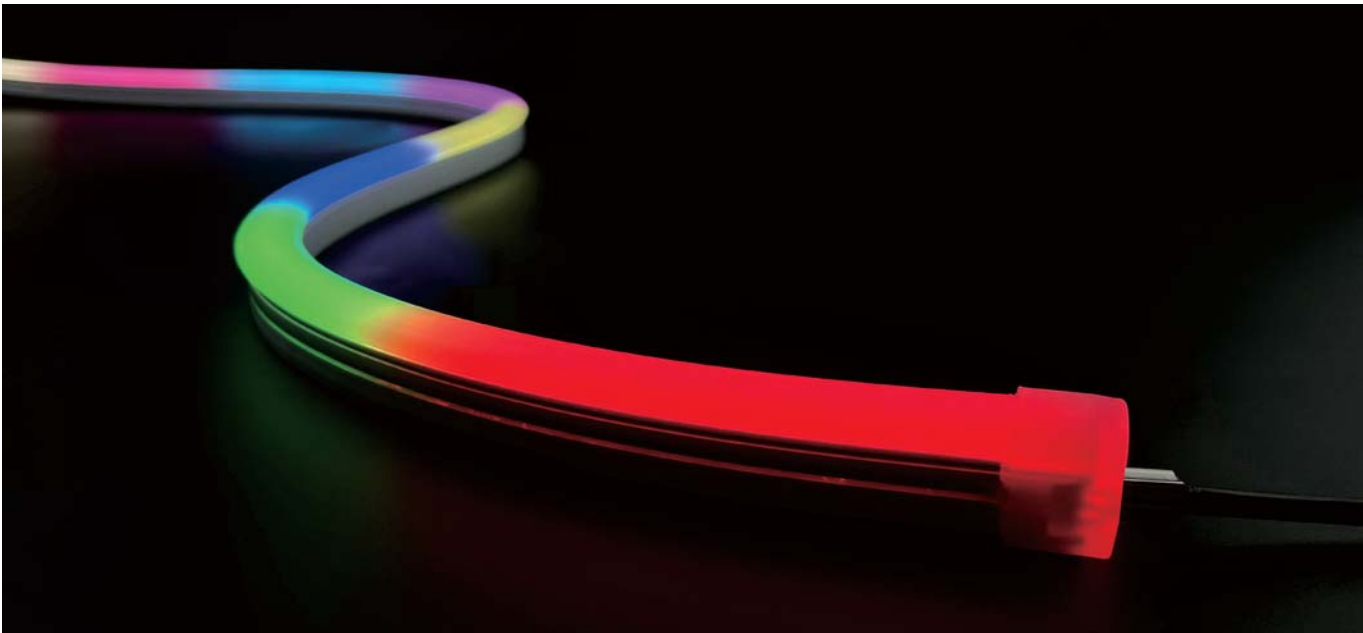
Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	29	6.0	8	125	SPI (Single data cable)	UCS2904
	4.8	G	78	16.3				
	4.8	B	23	4.8				
	4.8	W(4000K)	96	20.0				
	14.5	RGBW	218	15.0				

RGB (NS-S1220-RGB-DMX512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	30	6.3	8	125	DMX512	UCS512C2L
	4.8	G	115	24.0				
	4.8	B	20	4.2				
	12	RGB	161	13.4				

RGBW (NS-S1220-RGBW-DMX512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	28	5.8	8	125	DMX512	UCS512C2L
	4.8	G	80	16.7				
	4.8	B	16	3.3				
	4.8	W(4000K)	96	20.0				
	15	RGBW	211	14.1				

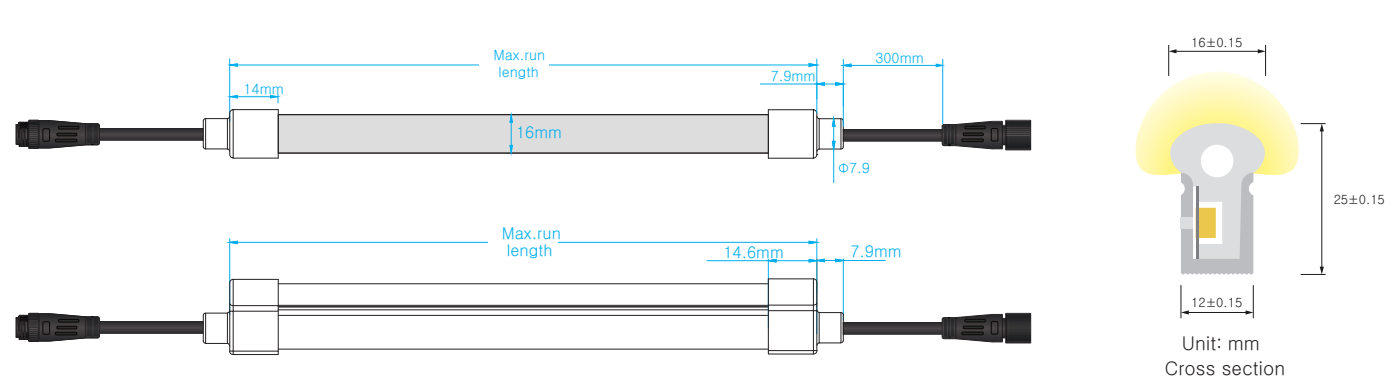


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Dimension structure



Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm	● ● ●	SPI (Single data cable): Red V+, Green DI/DO, Black V-
		OD : 5.5mm	● ● ● ●	SPI (Dual data cable) : Red V+, Green BI/BO, Blue DI/DO, Black V-
		OD : 5.5mm	● ● ● ●	DMX512 : Red V+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-
Silicone Cable		OD : 5.0mm	● ● ●	SPI : Red V+, Green DI/DO, Black V-
		OD : 6.0mm	● ● ● ●	Breakpoint Transmission : RedV+, Green BI/BO, Blue DI/DO, Black V-
		OD : 6.0mm	● ● ● ●	DMX512 : RedV+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-



RGB (NS-S1225-RGB-WS2818)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	5	R	25	5.0	8	125	SPI (Dual data cable)	UCS2603/WS2818
	5	G	102	20.4				
	5	B	19	3.8				
	12	RGB	145	12.1				

RGBW (NS-S1225-RGBW-UCS2904)

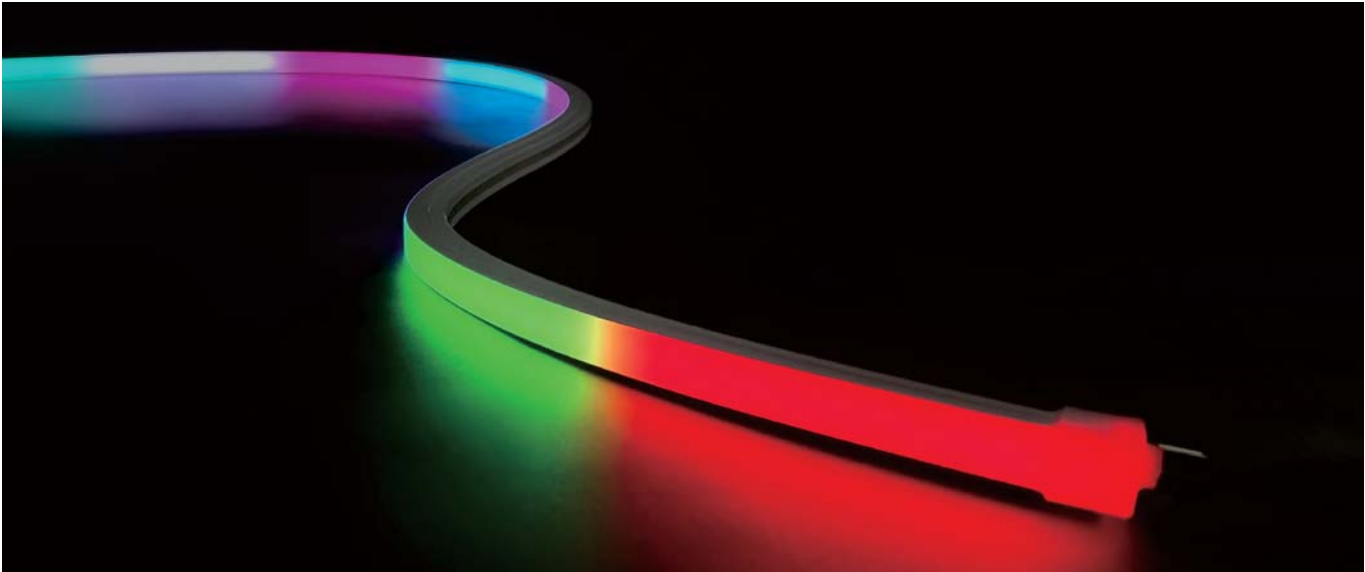
Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	24	5.0	8	125	SPI (Single data cable)	UCS2904
	4.8	G	72	15.0				
	4.8	B	22	4.6				
	4.8	W(4000K)	87	18.1				
	14.5	RGBW	200	13.8				

RGB (NS-S1225-RGB-DXM512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	27	5.6	8	125	DMX512	UCS512C2L
	4.8	G	107	22.3				
	4.8	B	19	4.0				
	12	RGB	148	12.3				

RGBW (NS-S1225-RGBW-DXM512)

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	26	5.4	8	125	DMX512	UCS512C2L
	4.8	G	74	15.4				
	4.8	B	23	4.8				
	4.8	W(4000K)	90	18.8				
	15	RGBW	208	13.9				

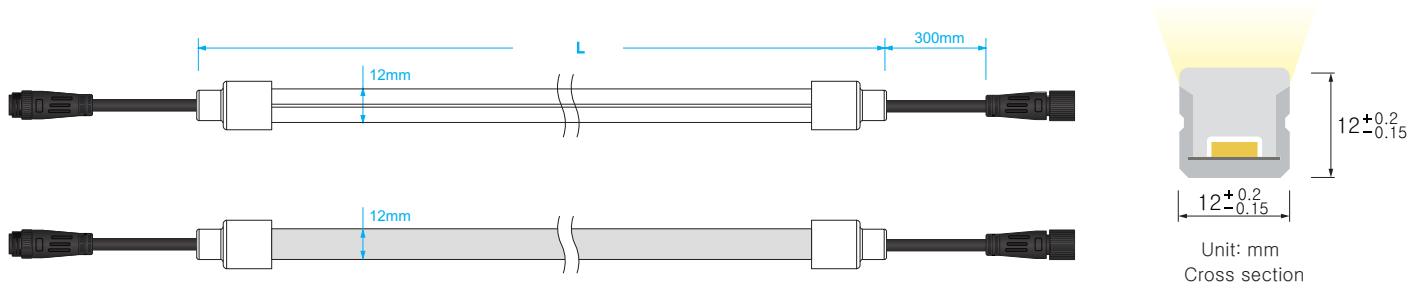


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Dimension structure

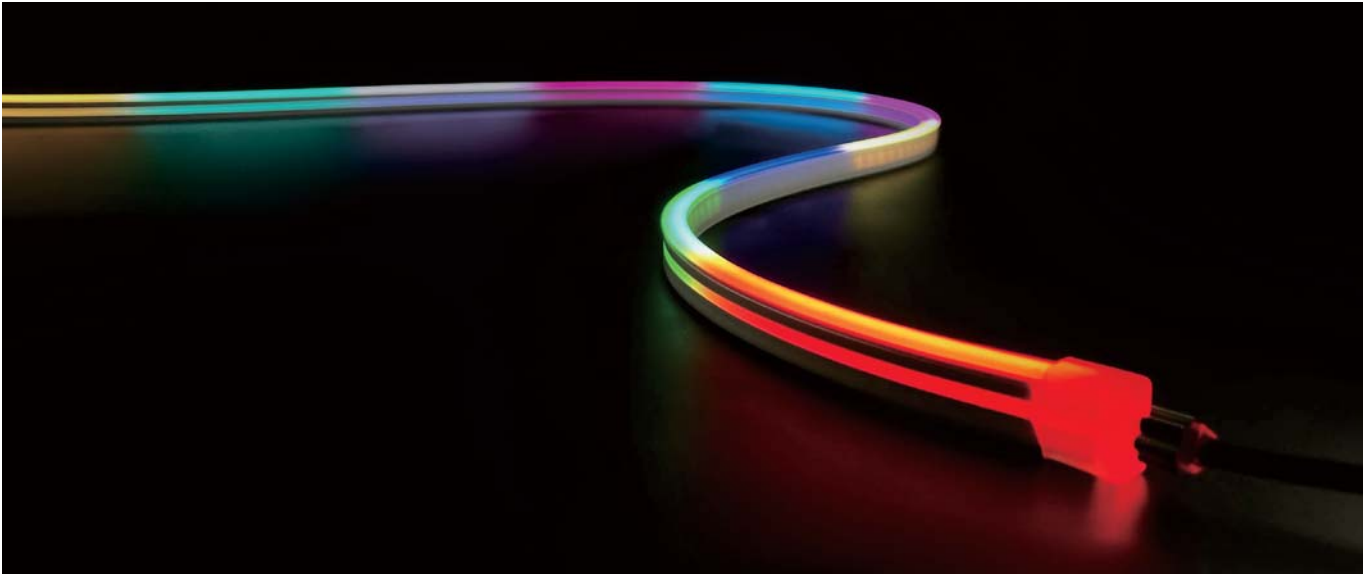


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LMM)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	60	12.5	10	100	SPI (Single data cable)	WS2811
	4.8	G	194	40.4				
	4.8	B	33	6.9				
	12.5	RGB	266	21.3				

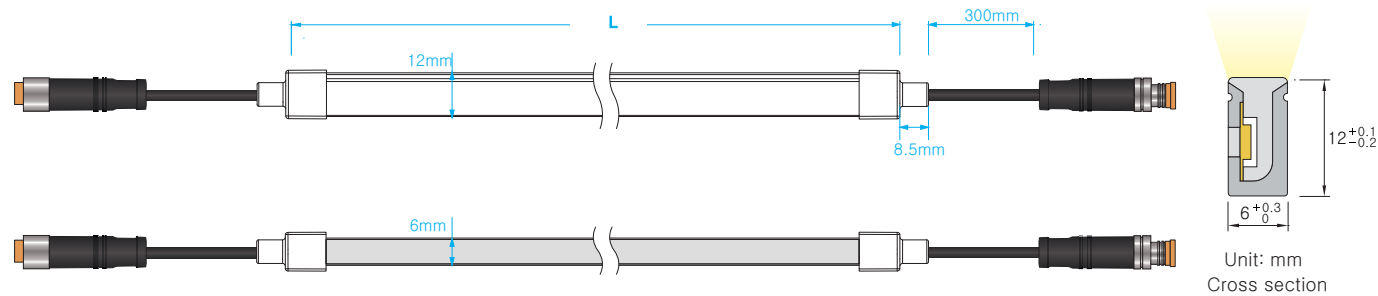


Product Features

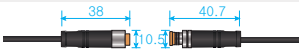
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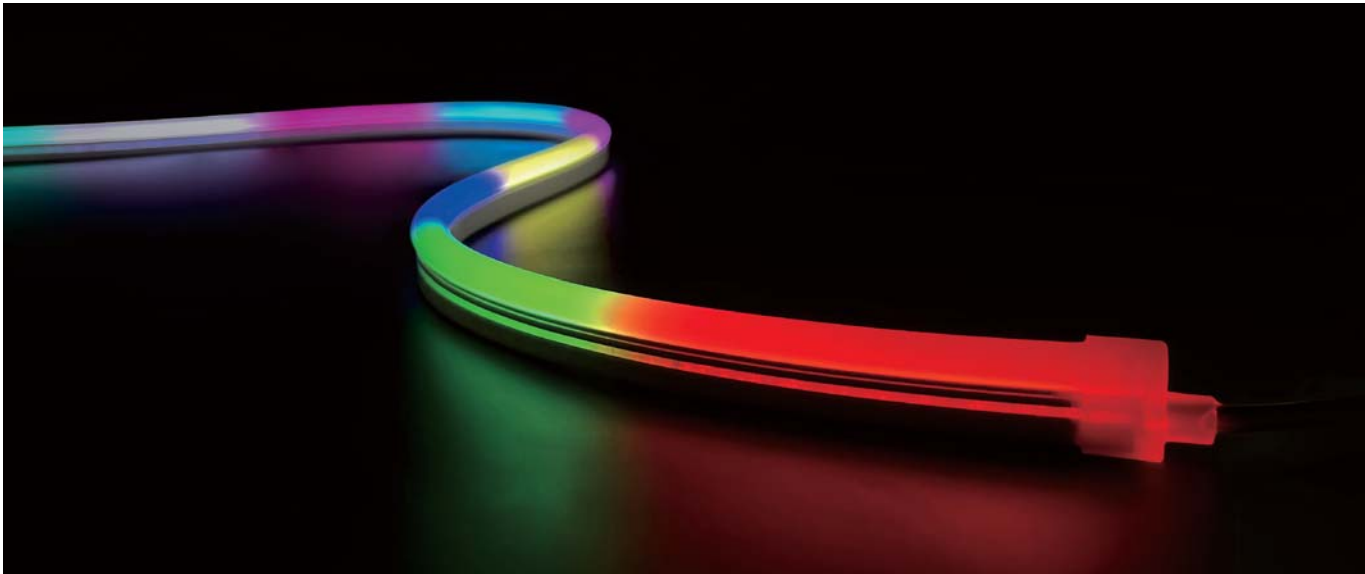


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 4.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	42	8.8	10	100	SPI (Single data cable)	WS2811
	4.8	G	122	25.4				
	4.8	B	22	4.6				
	12.5	RGB	162	13.0				

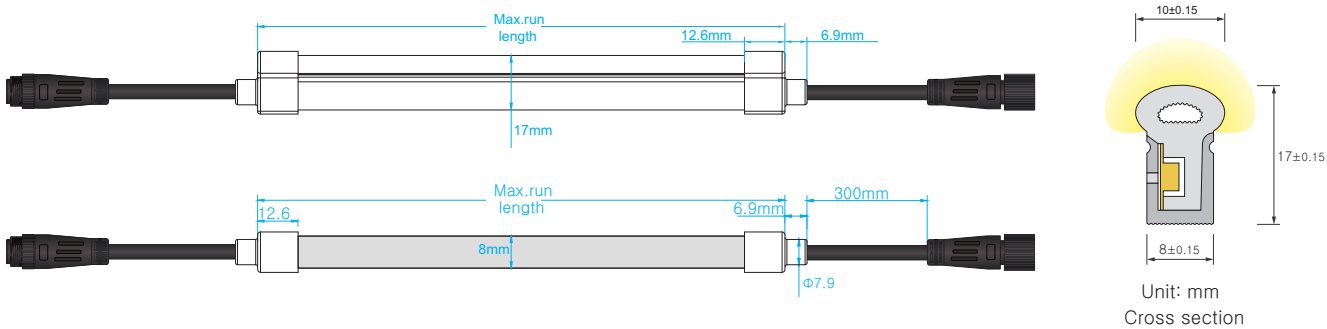


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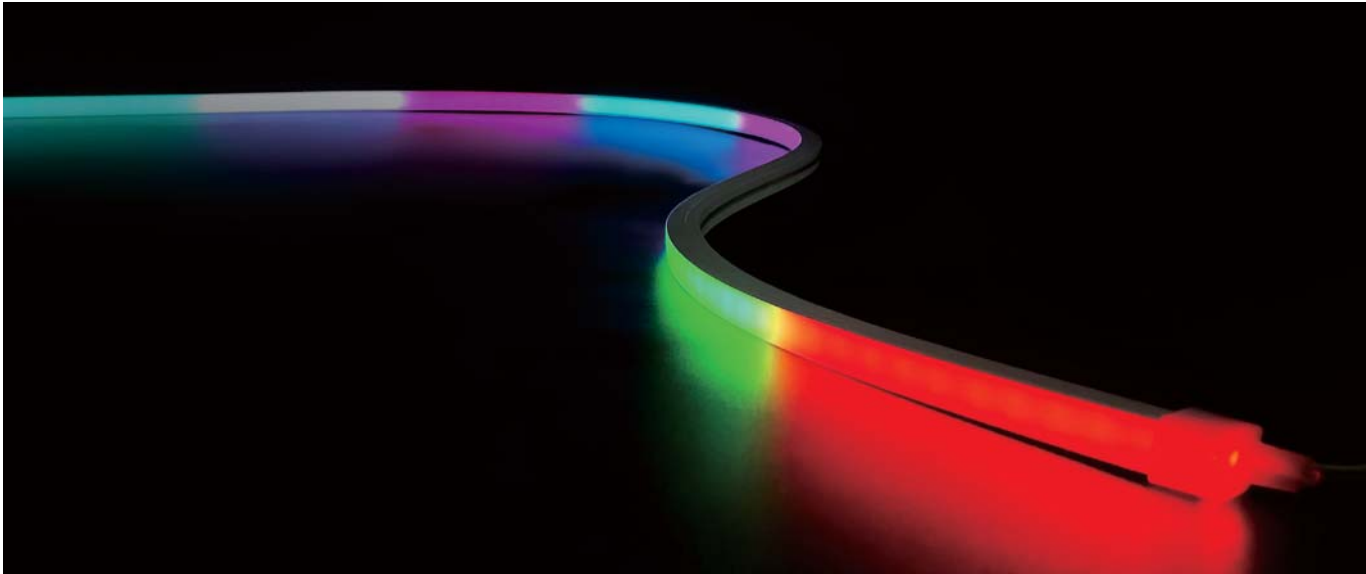


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LMM)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	36	7.5	10	100	SPI (Single data cable)	WS2811
	4.8	G	114	23.8				
	4.8	B	19	4.0				
	12.5	RGB	152	12.2				

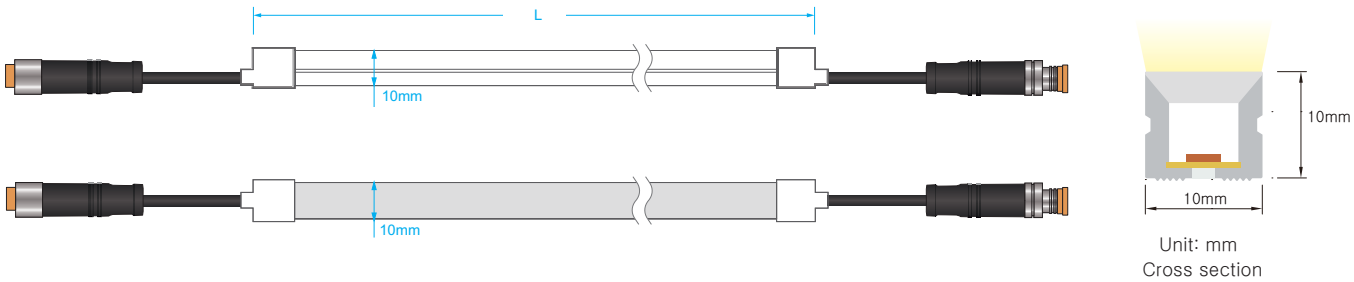


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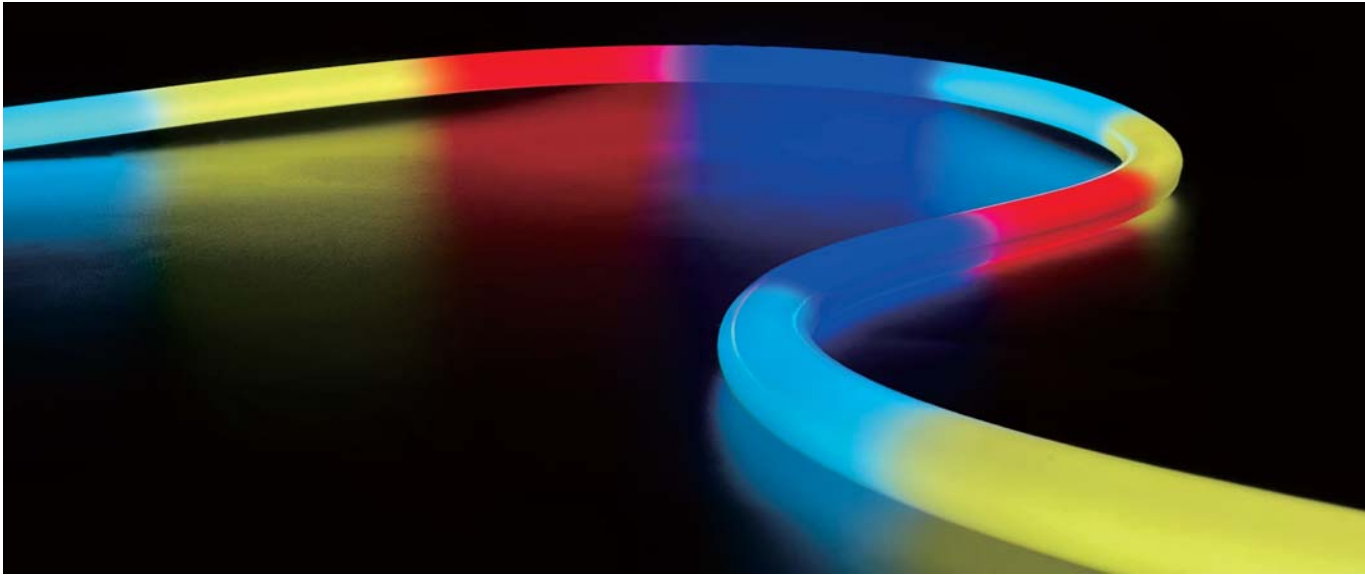


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 4.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	69	14.4	10	100	SPI (Single data cable)	WS2811
	4.8	G	216	45.0				
	4.8	B	35	7.3				
	12.5	RGB	304	24.3				

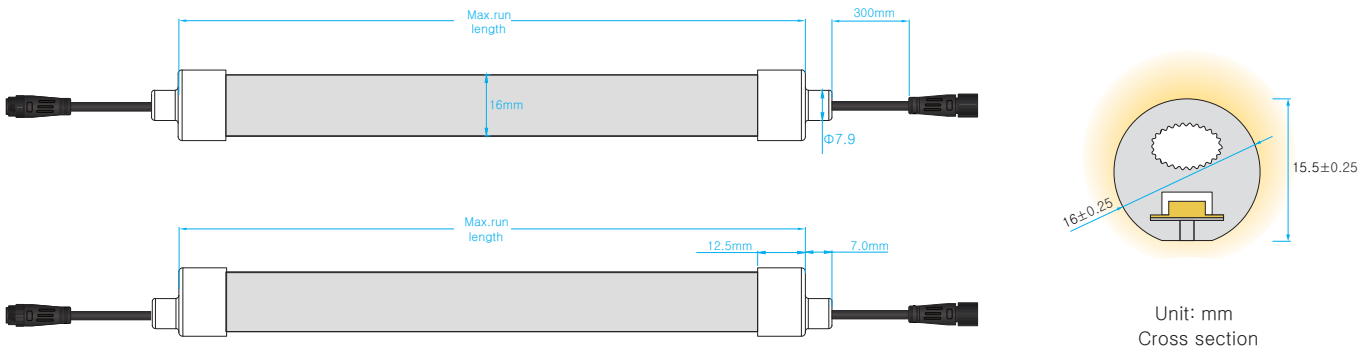


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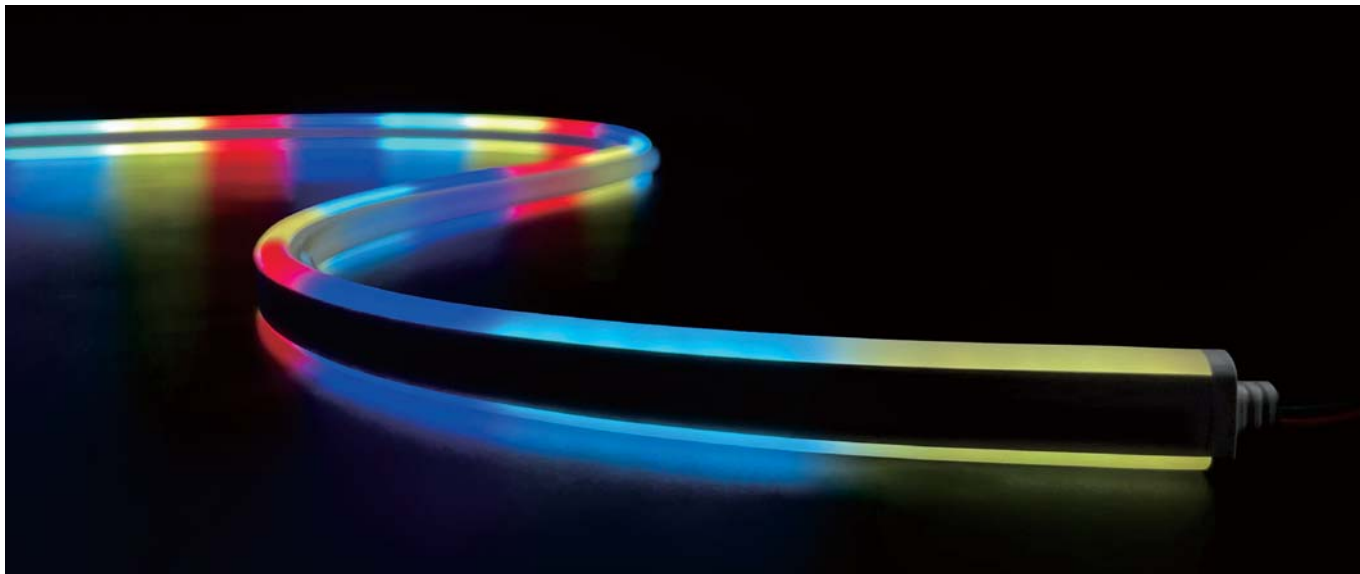


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LMM)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	69	14.4	10	100	SPI (Single data cable)	WS2811
	4.8	G	219	45.6				
	4.8	B	41	8.5				
	12.5	RGB	294	23.5				



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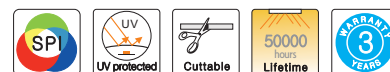
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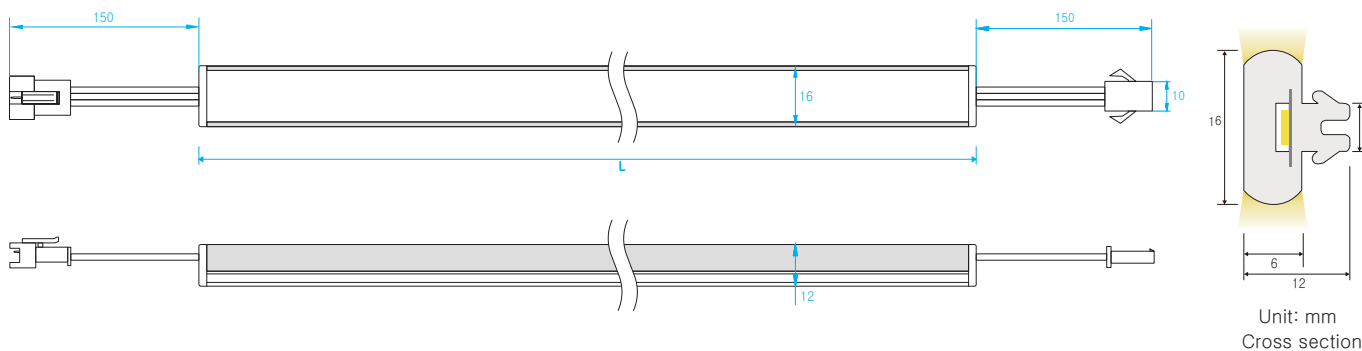
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Dimension structure

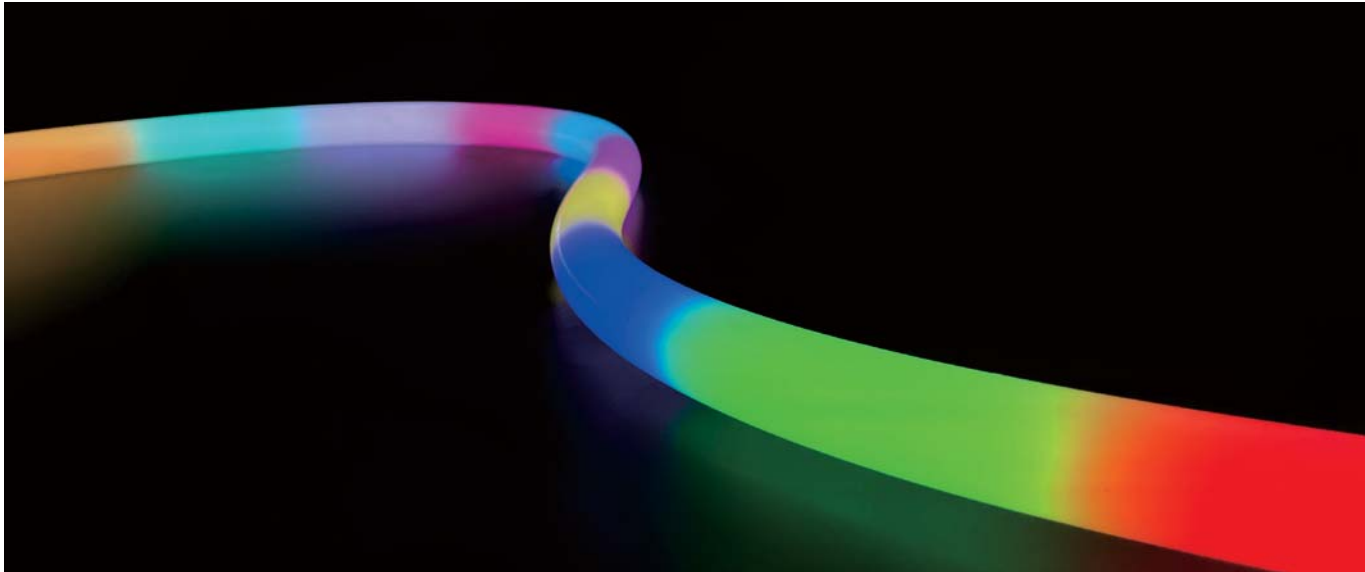


Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LMM)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	4.8	R	64	13.3	10	100	SPI (Single data cable)	WS2811
	4.8	G	199	41.5				
	4.8	B	34	7.1				
	12.5	RGB	273	21.8				

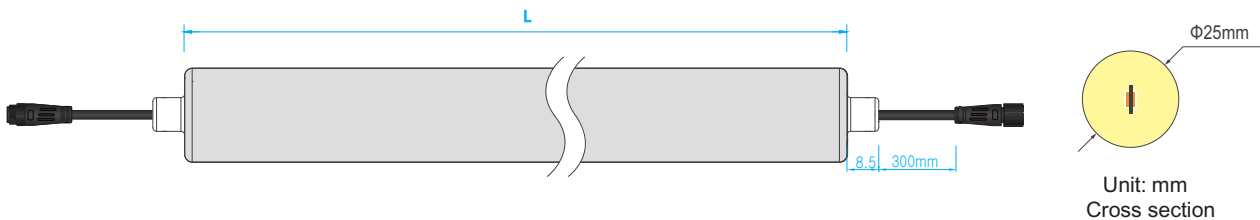


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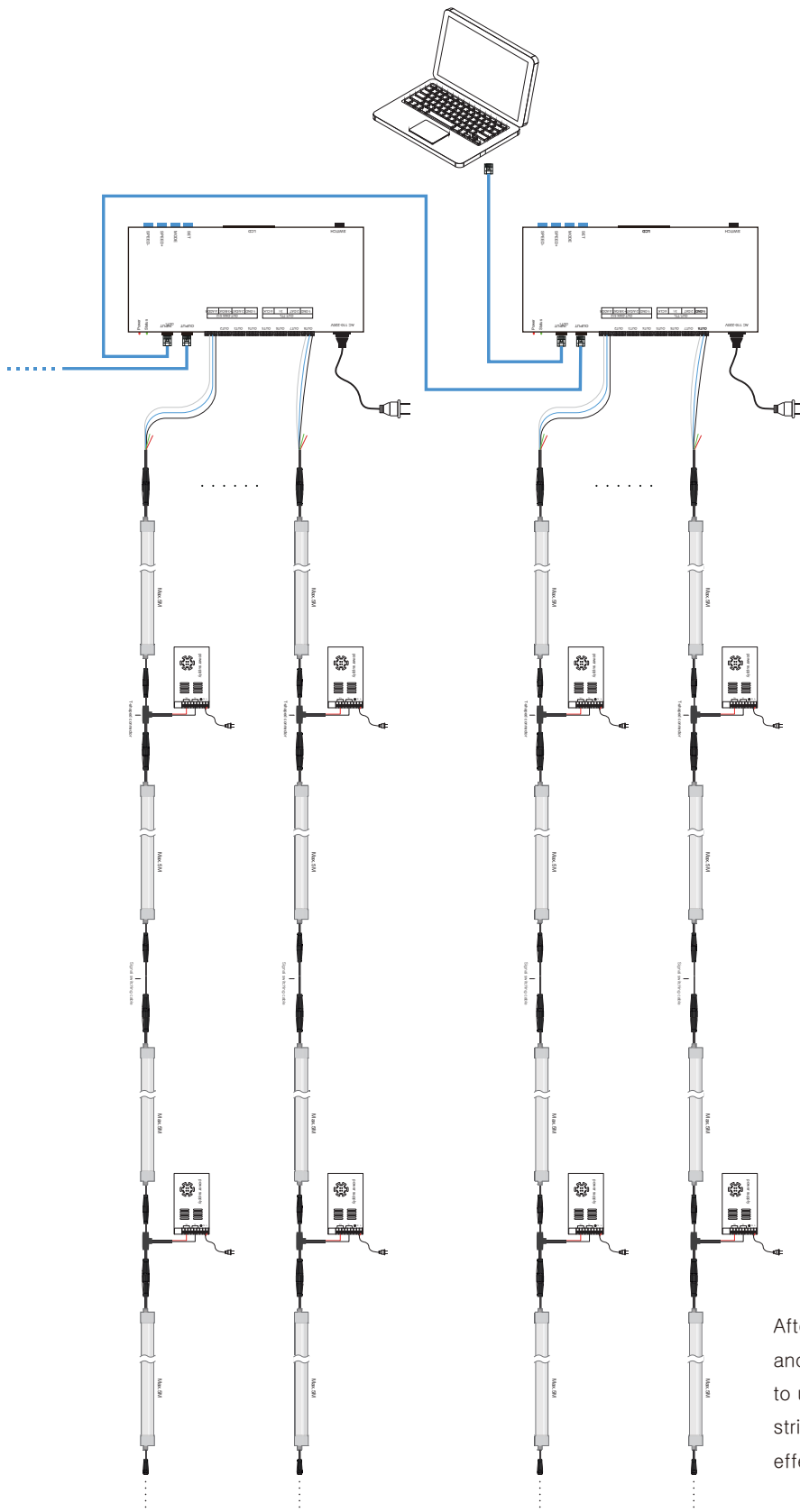
Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-
Silicone Cable		OD : 5.0mm		SPI (Single data cable): Red V+, Green DI/DO, Black V-

RGB

Voltage (V)	Power (W/M)	CCT/Color	Lumen (LMM)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	Signal Type	IC Model
DC24V	9.6	R	112	11.7	10	100	SPI (Single data cable)	WS2811
	9.6	G	350	36.5				
	9.6	B	54	5.6				
	25	RGB	474	19.0				

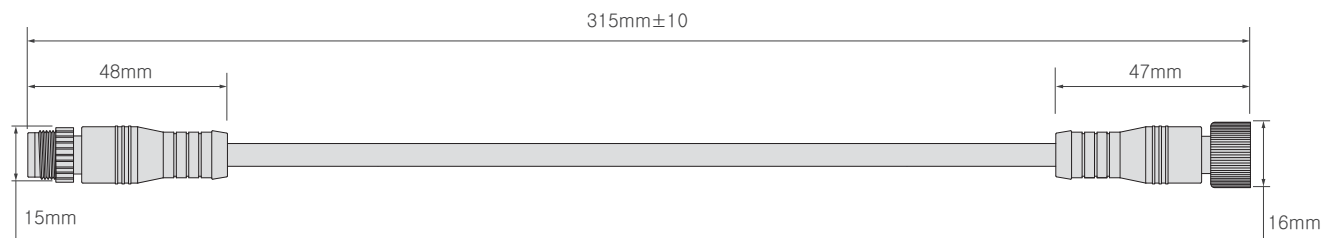
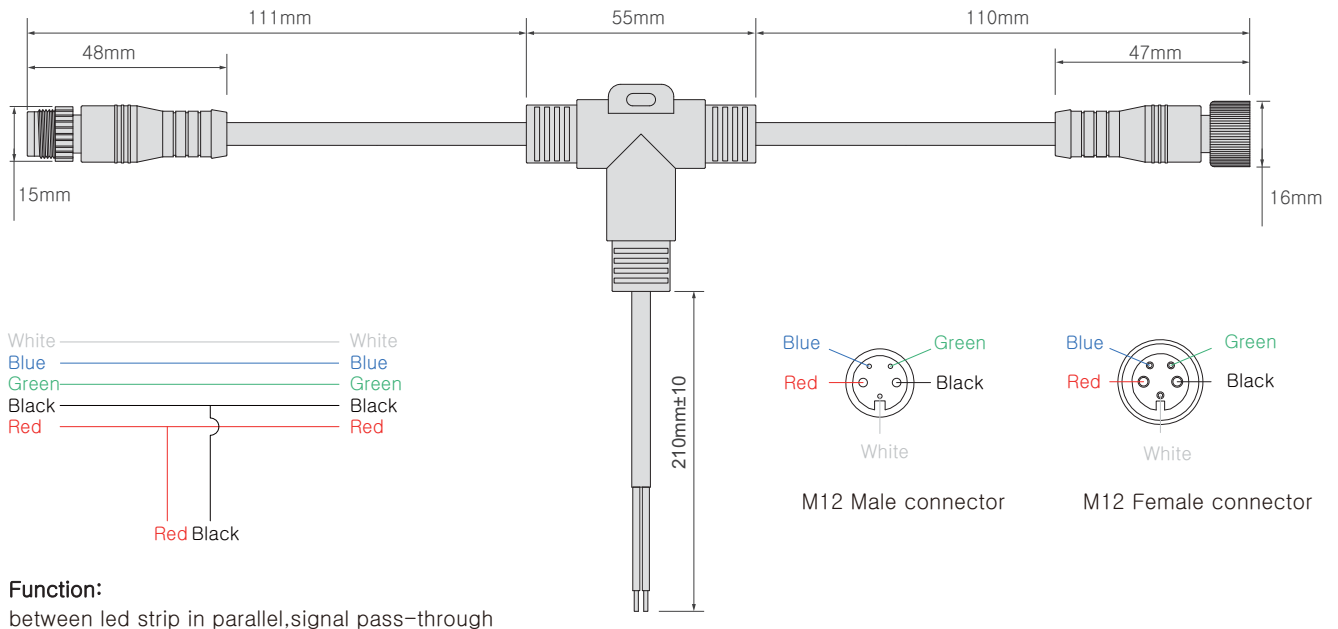
Control system connection diagram-DMX512



After the led strip is connected to the signal wire and power supply wire correctly, It is necessary to use a controller or coder to address the led strip ,then the controller can run the control effect program.

Accessories for DMX512 series

T-type 5 pin connector



5 pin Signal switching cable



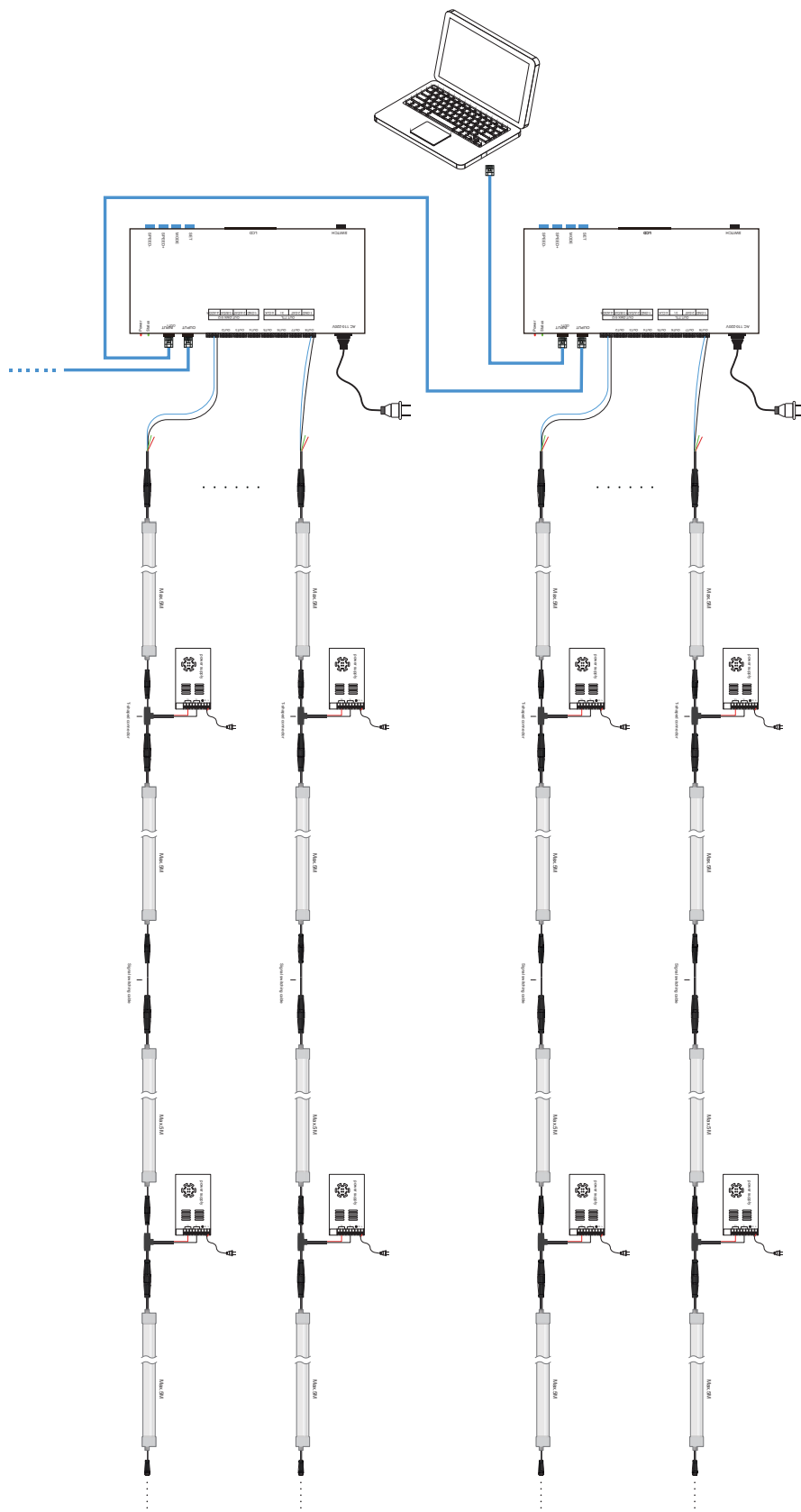
White — White
Blue — Blue
Green — Green
Black — Black
NC — NC

Function:

Keep the signal cable connected in series;

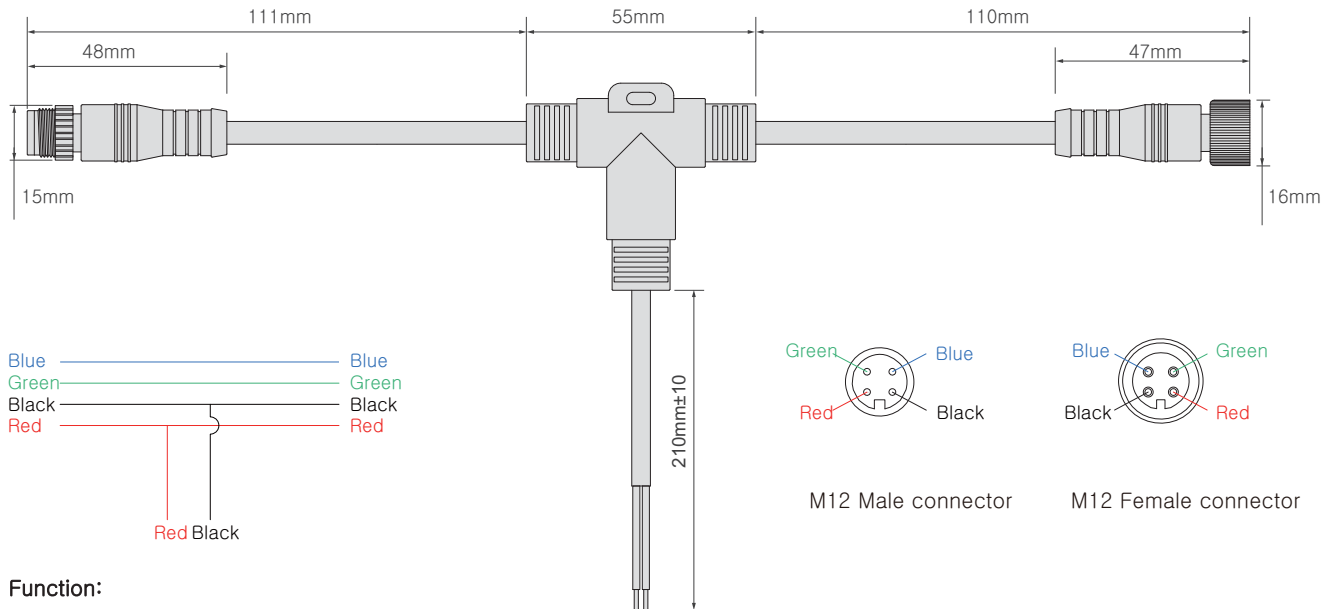
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

Control system connection diagram-SPI (Dual data cable)



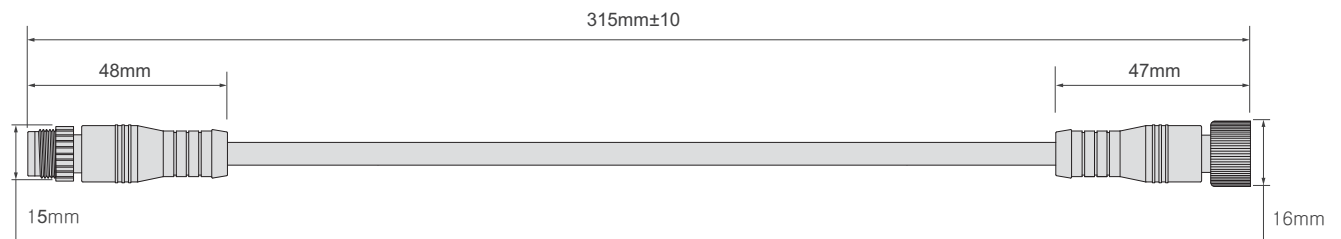
Accessories for SPI (Dual data cable) series

T-type 4 pin connector



Function:

between led strip in parallel, signal pass-through



4 pin Signal switching cable



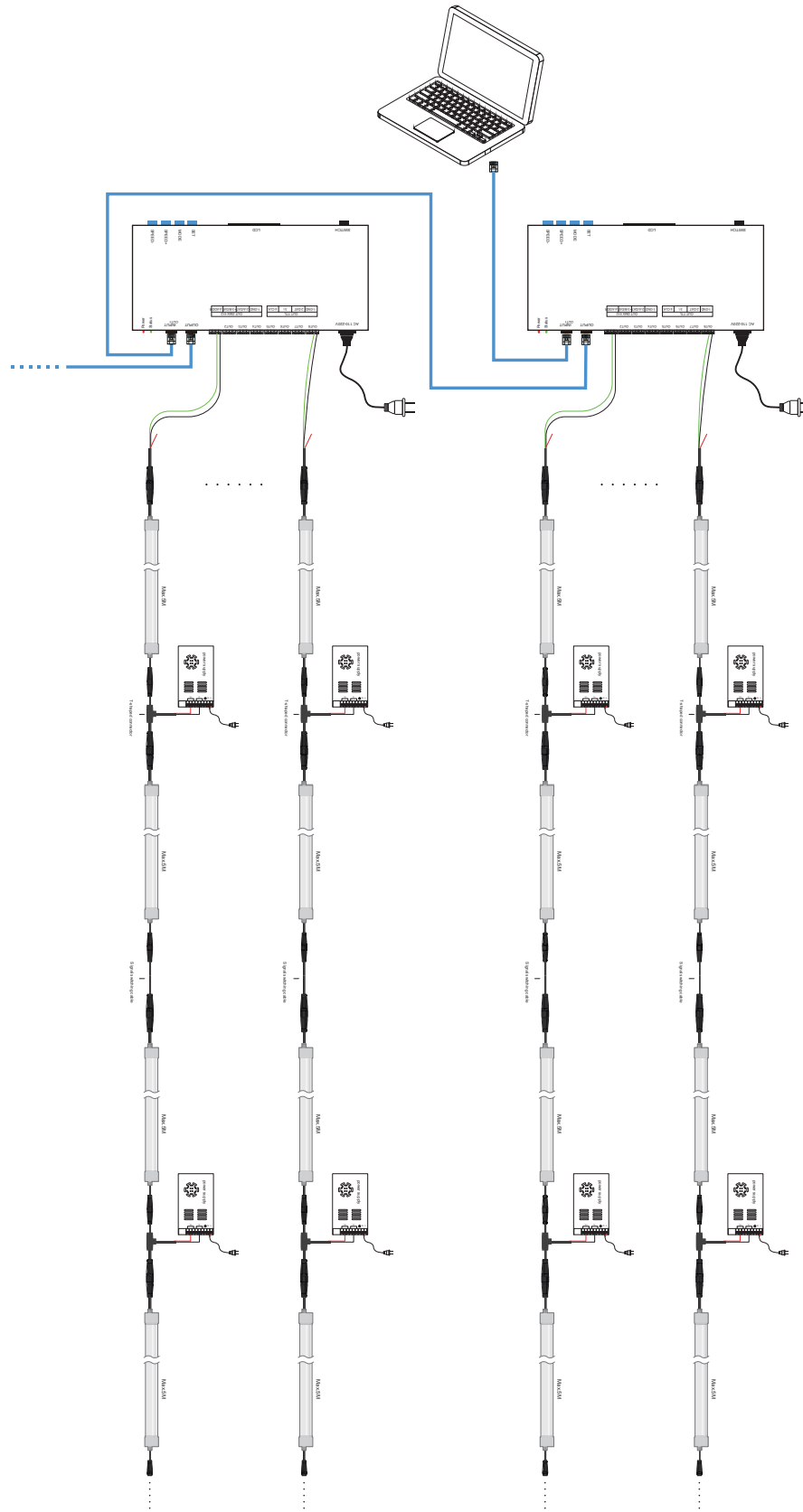
Black — Black
Blue — Blue
Green — Green
NC — NC

Function:

Keep the signal cable connected in series:

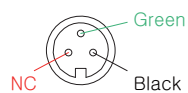
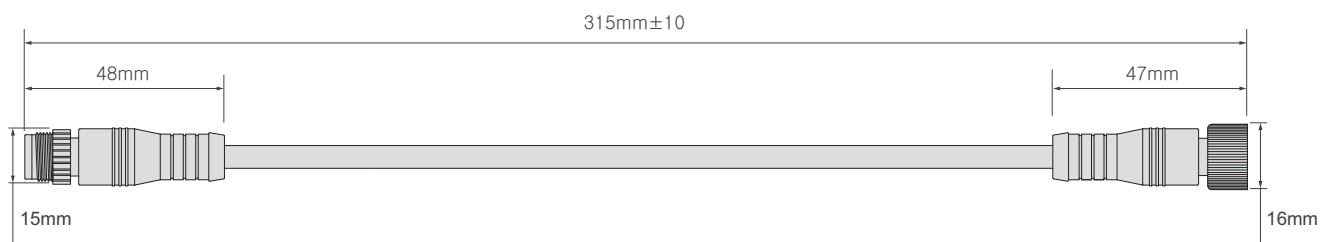
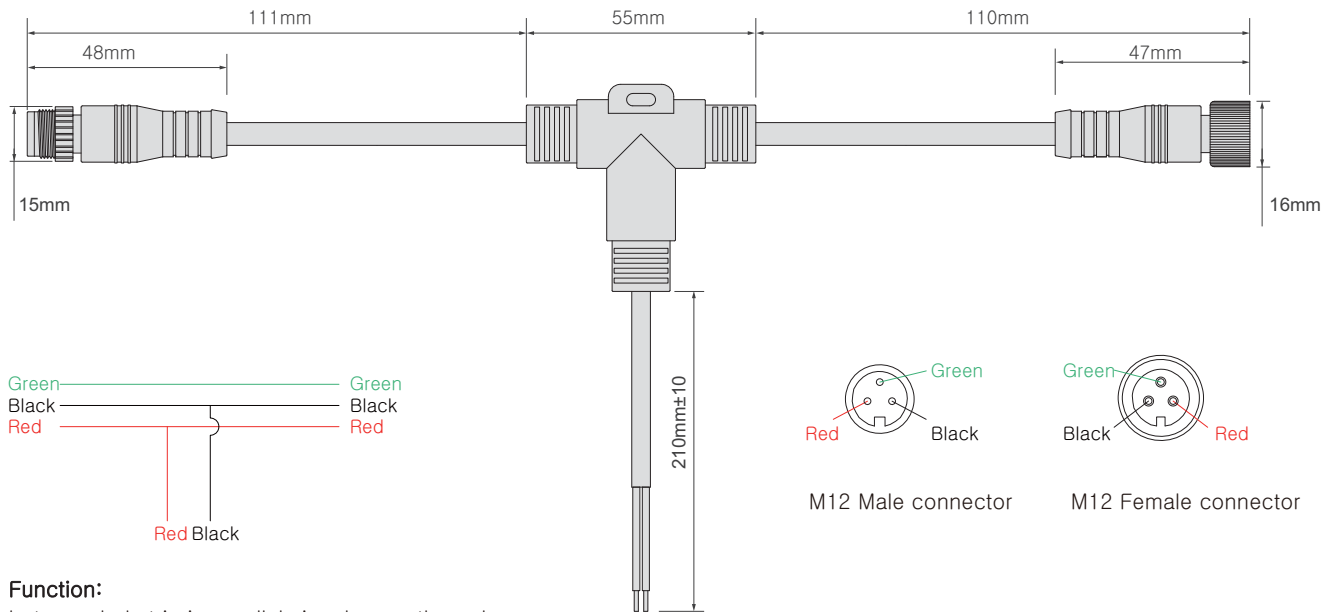
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

Control system connection diagram-SPI (Single data cable)

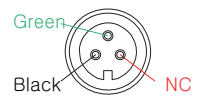


Accessories for (Single data cable) series

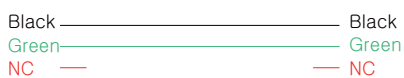
T-type 3 pin connector



M12 Male connector



M12 Female connector



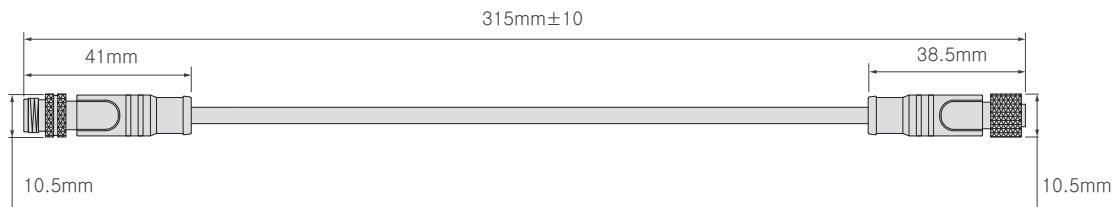
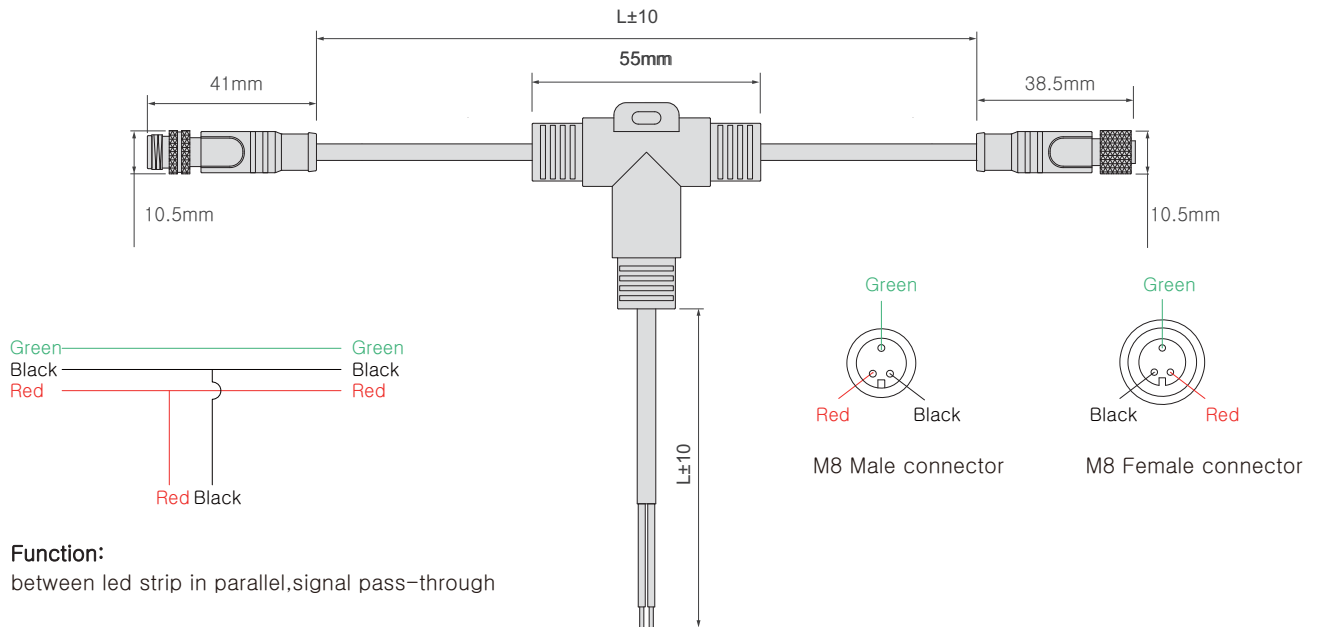
Function:

Keep the signal cable connected in series:

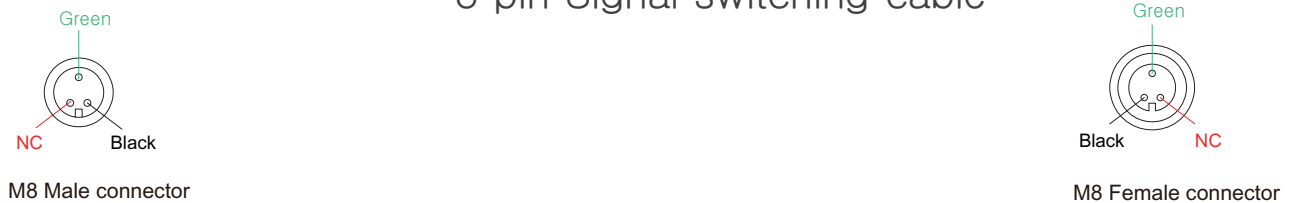
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

Accessories for (Single data cable) series (NS-S0612, NS-T1010)

T-type 3 pin connector



3 pin Signal switching cable



Black ————— Black
Green ————— Green
NC ————— NC

Function:

Keep the signal cable connected in series:

The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).