COLORS®
Linear Lighting

Specification

Toning series
DS560RGB-24V-10MM

CE RoHS ISO 9001 QUALITY ASSURED FIRM SGS

▼General description

- RGB colorful strip
- LED built into IC(GS8206),and IC has break point transmisstion
- controllers which support UCS19**,UCS29**,TM18**, SM167**,WS28**,SK6812 are recommoned
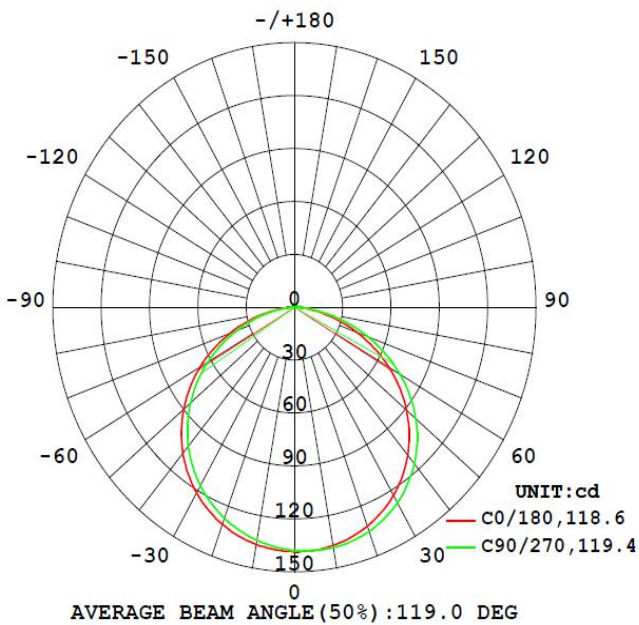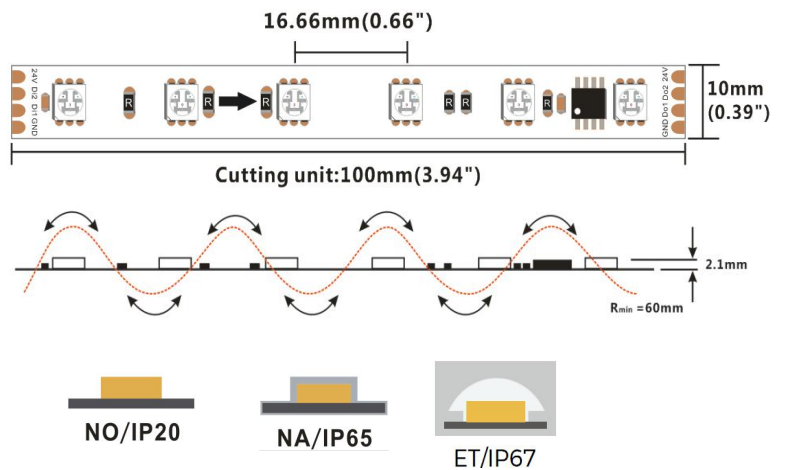- Ta: -20~40° C ; Tc=75° (max)

▼Dimension

※Max.length：5000mm

Cutting unit：100mm

Min. bend diameter：Φ60mm

Mounting：3M tape

IP：IP20/IP65/IP67

※Warranty：3years

16.66mm(0.66")

10mm (0.39")

Cutting unit:100mm(3.94")

2.1mm

Rmin =60mm

NO/IP20   **NA/IP65**   ET/IP67

-/+180

-150   150

-120   120

-90   90

0
30
60
90
120
150
0

-60   60

-30   30

UNIT:cd
C0/180,118.6
C90/270,119.4

AVERAGE BEAM ANGLE(50%):119.0 DEG

Photometric of 1M strip

Flux out:331.6 lm

Height	Eavg,Emax	Angle:118.63deg	Diameter
1m	35.18,138.51x		337.03cm
2m	8.795,34.631x		674.06cm
3m	3.909,15.391x		1011.09cm
4m	2.199,8.6571x		1348.12cm
5m	1.407,5.5401x		1685.16cm
6m	0.9772,3.8471x		2022.19cm
7m	0.7179,2.8271x		2359.22cm
8m	0.5497,2.1641x		2696.25cm
9m	0.4343,1.7101x		3033.28cm
10m	0.3518,1.3851x		3370.31cm

AAI Figure

※Max.length data is based on 10% voltage drop

※Warranty is based on indoor use

▼Electronic & output data

Input voltage：DC24V

Typical Power：13W(1m) /51.8W(5m)

Max.power：15W(1m)

Power range：11～15W(1m)

Rated current：0.54A(1m) /2.2A(5m)

Colors：RGB

On-off times：10000（test times）

Copper foil：3oz

Color	RGB	R	G	B
wavelength	/	625nm	525nm	470nm
Lumen	455	105	255	50
Lm/W	35	22	59	12
Energy efficiency	/	/	/	/
1.The tolerance of output data can be vary up to 15%				
2.the output data tested according to IES TM-30-15				
3.the output data is based on IP20/1merter , data of 5m in only for reference				
4.IP protection process leads changes to size, CCT and luminous flux				

▼IP Process

IP Process	Picture	description	Size	optional CCT/color for finished product	lumen output rate
NO	NO/IP20	NO	10*2.1mm	RGB	100%
NA	NA/IP65	NA	10*2.1mm	RGB	98%
ET	ET/IP67	Extrusion tube	12*5mm	RGB	88%

▼Accessories Information

Name	Picture	Code	description
"T" connector		94-44-00-0117	"T" connector model ; male cable+female cable,Power wire 2pin,18AWG,L=150mm
Fixed Clip		94-02-00-0018	10mm width IP20

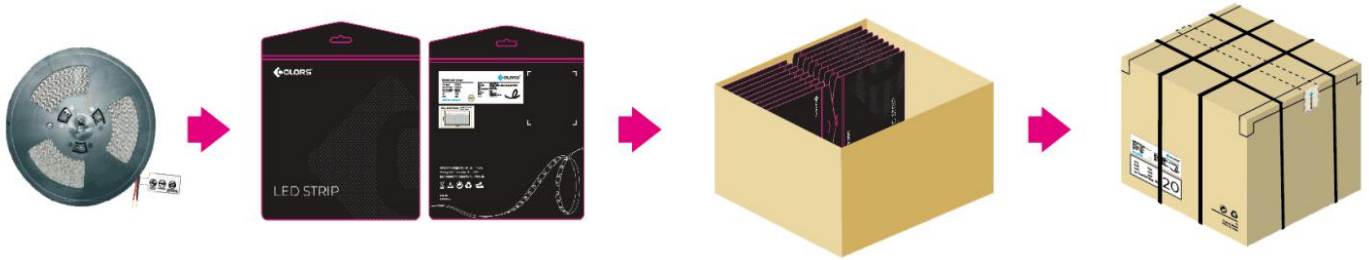| Mounting clip		94-02-00-0025	Transparent PVC mounting groove size:1000*9.8*9.5mm,suitable for 10mm FPC silicone extruded EF strip
Fixed Clip		94-02-00-0004	Silicone clip,screw:PA 3*8 mm,suitable for 12mm FPC ,SF/ST strip,and 10mm FPC FPC EH/EF/ET strip
Hole plug		94-02-00-0022	Silicone plug,suitable for 10mm FPC ,EH/ET/EF silicone extrusion strip
Stopper glue		94-16-03010001	Silicone gel,suitable for IP65 and IP67 LED strip
Controller		23-01-00-0048	Suit for SPI and DMX strip With 1 port 1024 pixels for SPI 512 pixels for DMX
Controller		23-01-00-0049	Suit for SPI and DMX strip With 4 ports 4*1024pixels for SPI 4*512 pixels for DMX
Controller		23-01-00-0050	Suit for SPI and DMX strip With 8 ports 8*1024pixels for SPI 8*512 pixels for DMX

▼Order Code Formats

1 : Category		2 : LED		3 : LM/m		4 : Voltage		5:FPC Width		6 : IP Process		7 : CRI		8 : CCT	
DS	-	5	5050	60	60LED	24	24V	10	10mm	NO	NO	0	0	RGB	RGB
										NA	NANO				
										ET	Extrusion tube				
DS	-	5		60		24		10		NO		0		RGB	

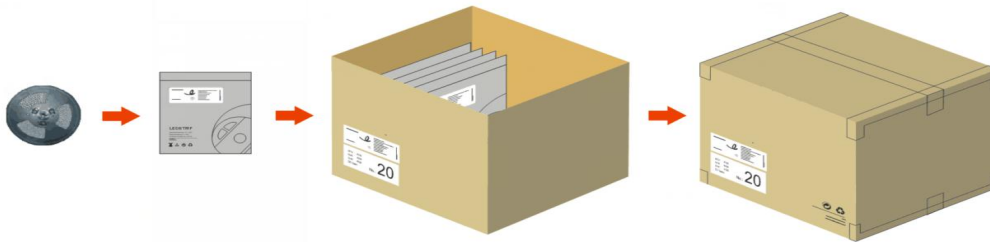| 9 : Silk Printing		10 : Entery cable		11 : Wire type		12 : Wire length		13 : Tape type		14 : Label Type		15 : Strip Length	
N	Neutral	D	Double	I	Male and female head	020	20cm	W	White 3M	C	COLORS	0500	5m
		X	Nothing	P	Silicone waterproof line	0	Nothing	Y	Yellow 3M	S	Customized		
				X	Nothing			R	Red tape				
								X	Nothing				
N		D		I		020		W		C		0500	

DS5602410NO-0RGBNDI020WC0500

▼Packing

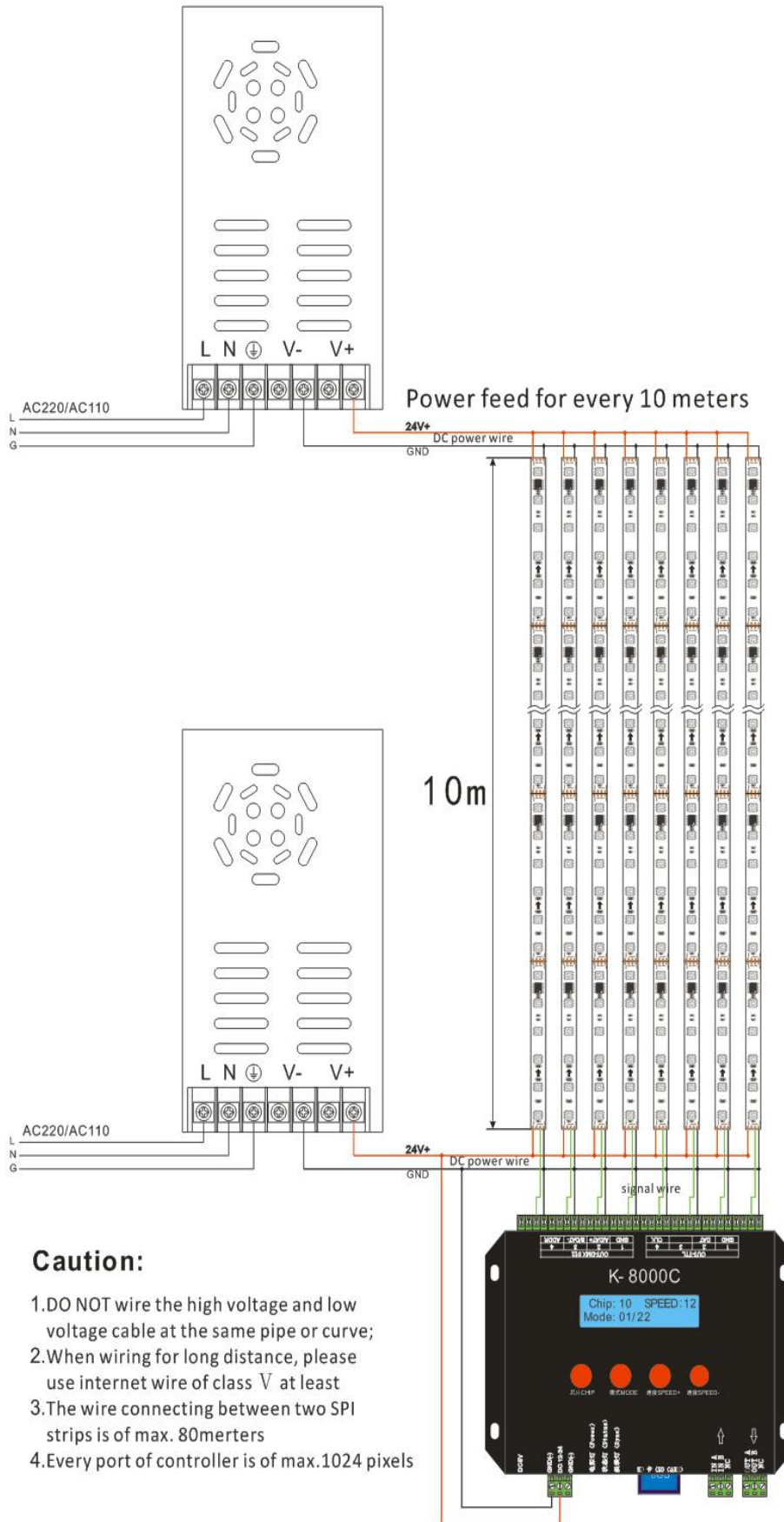## Colors brand package

General customized package

IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*10*2.1	5	250	0.125	6.25	7.19	41*41*26
NA	5000*10*2.1	5	250	0.131	6.55	7.53	41*41*26
ET	5000*10*5.0	5	200	0.505	20.2	23.23	41*41*26

Remark : data with 10% tolerance

▼Precautions

※ Please drive the led strip with 24VDC isolated power, and the ripple of the constant voltage source should be less than 5%.

※ Please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability.

※ Do not fold it in case any damage of LED beads.

※ Do not pull the power wire hard to ensure the longevity. Any Crash may damage the LED light is prohibited.

※ Please make sure the wire is connected to the anode and cathode correctly. The power output should be consistent with the voltage of the strip to avoid damage.

※ LED lights should be stored in dry, sealed environment. Please only unpack it before usage. Ambient temperature: -20℃~40℃.Storage temperature: 0℃~60℃.Please use the strips without waterproof within indoor environment with humidity less than 70%.

※ Please be careful during operation. Do not touch the AC power supply in case of electric shock.

※ Please leave at least 20% power for the power supply during using to ensure there is enough power supply to drive the product.

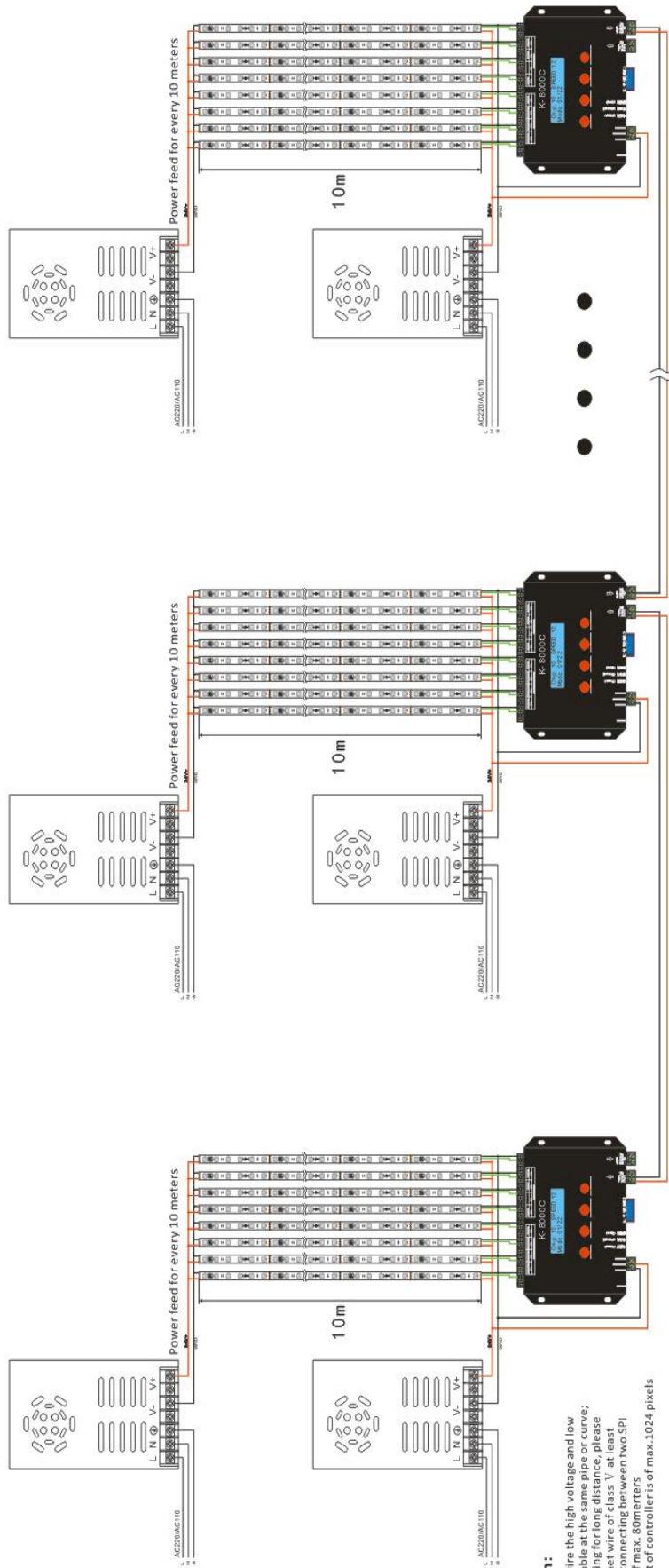※ Do not use any acid or alkaline adhesives to fix the product (e.g.: glass cement).

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▼Connection diagram

Power feed for every 10 meters

L N ⊕ V- V+

AC220/AC110

L
N
G

24V+
DC power wire
GND

10m

L N ⊕ V- V+

AC220/AC110

L
N
G

24V+
DC power wire
GND

signal wire

K- 8000C

Chip: 10   SPEED:12
Mode: 01/22

Caution:

1. DO NOT wire the high voltage and low voltage cable at the same pipe or curve;
2. When wiring for long distance, please use internet wire of class Ⅴ at least
3. The wire connecting between two SPI strips is of max. 80merters
4. Every port of controller is of max.1024 pixels

Connecting diagram for SPI RGB/W strip

Connecting diagram for SPI RGB/W strip

Power feed for every 10 meters

10m

AC220/AC110

K-8000C

Caution:
1. DO NOT wire the high voltage and low voltage cable at the same pipe or curve;
2. When wiring for long distance, please use internet wire of class V at least
3. The wire connecting between two SPI strips is of max. 80merters
4. Every port of controller is of max.1024 pixels