Specification
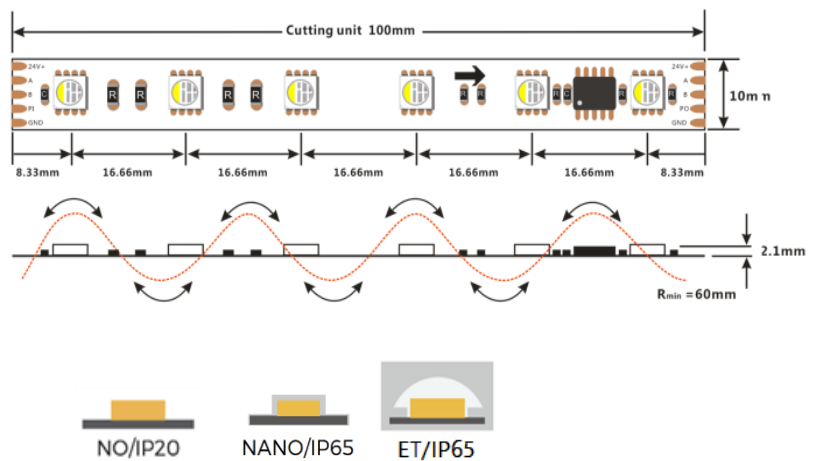
DM560RGBW-24V-10mm

COLORS®
Linear Lighting

▼General description

●DMX512 RGBW strip，with good anti-interference capacity。

●Same brightness from head end to tail end, no color change,Can be programming for various mode

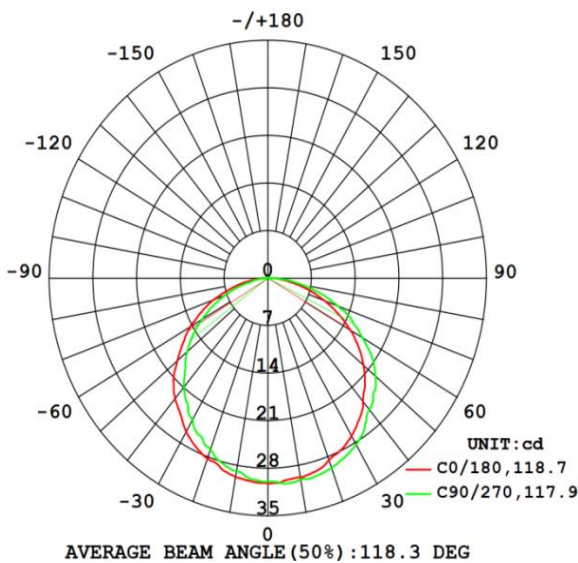●10 pixels per meter,256 grey scale

●Ta: -25~40°C；Tc：75°C（max)

▼Dimension

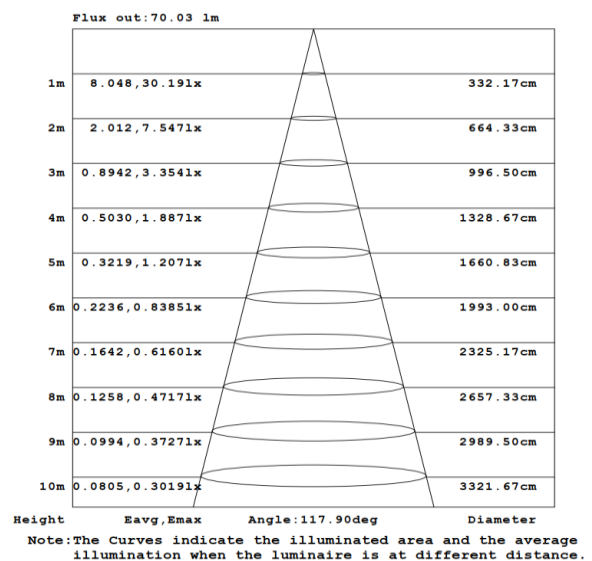※Max.length： 5000mm

Cutting unit： 6leds/100mm

LED pitch： 16.66mm

Min. bend diameter：Φ60mm

Mounting： 3M tape

IP： IP20/IP65

※Warranty： 3years

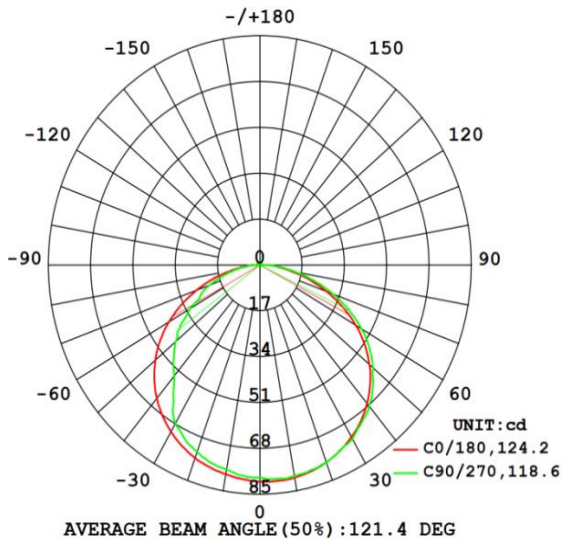※Max.length data is based on 10% voltage drop

※Warranty is based on indoor use

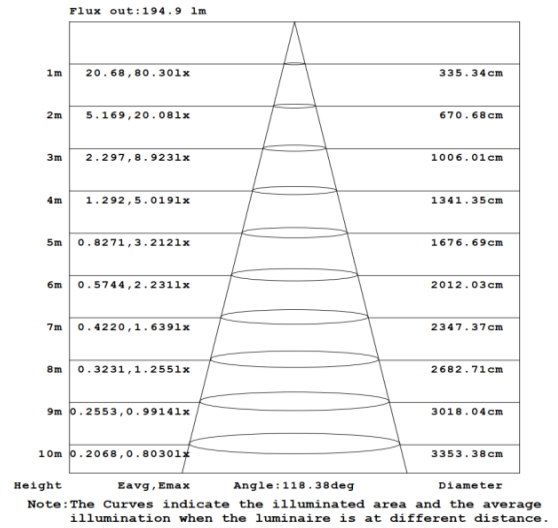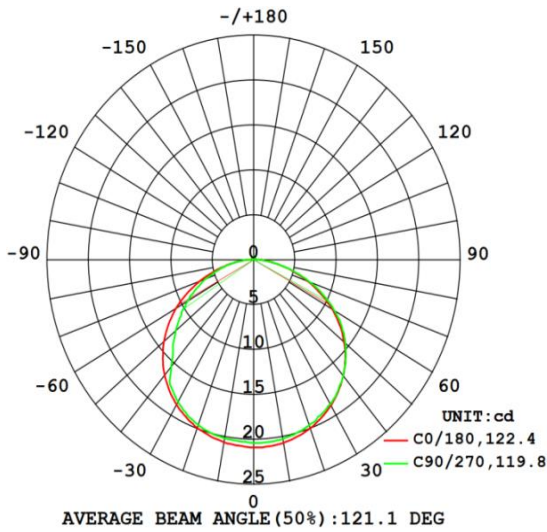Cutting unit 100mm

8.33mm 16.66mm 16.66mm 16.66mm 16.66mm 16.66mm 8.33mm

10m n

2.1mm

R_min =60mm

NO/IP20   NANO/IP65   ET/IP65

-/+180
-150   150
-120   120
-90   90
0
7
14
21
28
-60   60
35
-30   30
0

UNIT:cd
C0/180,118.7
C90/270,117.9

AVERAGE BEAM ANGLE(50%):118.3 DEG

Photometric of 1M strip （R）

Flux out:70.03 lm

Height	Eavg,Emax	Angle:117.90deg	Diameter
1m	8.048,30.191x		332.17cm
2m	2.012,7.5471x		664.33cm
3m	0.8942,3.3541x		996.50cm
4m	0.5030,1.8871x		1328.67cm
5m	0.3219,1.2071x		1660.83cm
6m	0.2236,0.83851x		1993.00cm
7m	0.1642,0.61601x		2325.17cm
8m	0.1258,0.47171x		2657.33cm
9m	0.0994,0.37271x		2989.50cm
10m	0.0805,0.30191x		3321.67cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

AAI Figure （R）

Photometric of 1M strip (G)

-/+180
-150 150
-120 120
-90 90
-60 60
-30 30
0

17
34
51
68
85

UNIT:cd
C0/180,124.2
C90/270,118.6

AVERAGE BEAM ANGLE(50%):121.4 DEG

AAI Figure (G)

Flux out:194.9 lm

Height	Eavg,Emax	Angle:118.38deg	Diameter
1m	20.68,80.30lx		335.34cm
2m	5.169,20.08lx		670.68cm
3m	2.297,8.923lx		1006.01cm
4m	1.292,5.019lx		1341.35cm
5m	0.8271,3.212lx		1676.69cm
6m	0.5744,2.231lx		2012.03cm
7m	0.4220,1.639lx		2347.37cm
8m	0.3231,1.255lx		2682.71cm
9m	0.2553,0.99141x		3018.04cm
10m	0.2068,0.80301x		3353.38cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Photometric of 1M strip (B)

-/+180
-150 150
-120 120
-90 90
-60 60
-30 30
0

5
10
15
20
25

UNIT:cd
C0/180,122.4
C90/270,119.8

AVERAGE BEAM ANGLE(50%):121.1 DEG

AAI Figure (B)

Flux out:50.31 lm

Height	Eavg,Emax	Angle:118.68deg	Diameter
1m	5.338,20.90lx		337.34cm
2m	1.335,5.226lx		674.69cm
3m	0.5931,2.323lx		1012.03cm
4m	0.3336,1.306lx		1349.37cm
5m	0.2135,0.83611x		1686.71cm
6m	0.1483,0.58061x		2024.06cm
7m	0.1089,0.42661x		2361.40cm
8m	0.0834,0.32661x		2698.74cm
9m	0.0659,0.25811x		3036.09cm
10m	0.0534,0.20901x		3373.43cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Photometric of 1M strip (W)

-/+180
-150 150
-120 120
-90 90
-60 60
-30 30
0

30
60
90
120
150

UNIT:cd
C0/180,118.1
C90/270,114.0

AVERAGE BEAM ANGLE(50%):116.0 DEG

AAI Figure (W)

Flux out:244.3 lm

Height	Eavg,Emax	Angle:113.42deg	Diameter
1m	32.80,111.51x		304.61cm
2m	8.200,27.871x		609.22cm
3m	3.644,12.391x		913.83cm
4m	2.050,6.9671x		1218.44cm
5m	1.312,4.4591x		1523.05cm
6m	0.9111,3.0961x		1827.66cm
7m	0.6694,2.2751x		2132.28cm
8m	0.5125,1.7421x		2436.89cm
9m	0.4049,1.3761x		2741.50cm
10m	0.3280,1.1151x		3046.11cm

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

▼Electronic & output data

Input voltage：	DC24V		Rated current：	0.67A(1m) /2.85A(5m)
Typical Powe：	16W(1m) /68.4W(5m)		ignal frequency：	250kbps~750kbps
Max.power：	18 W		On-off times：	10000 (test times)
Power range：	14~18W		Copper foil：	3oz

CRI	Color	Wavelength	Lumen(lm)	lm/W	Energy efficiency class
/	W	6287K	290	49	A
0	Red	620.9	88	/	/
0	Green	527.8	237	/	/
0	Blue	466.3	66	/	/

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 proof	10mm*2.1mm	RGBW	100%
NA	NANO/IP65	Nano-proof	10mm*2.1mm	RGBW	98%
ET	ET/IP65	Extrusion tube	12mm*4.8mm	RGBW	88%

▼Accessories Information

Name	Picture	Code	description
Fixed Clip		94-02-00-0003	Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC, SF/ST strip
Fixed Clip		94-02-00-0018	Fixed clip, transparent, 3*8mm self-tapping screws, suitable for 10mm FPC,NO/NA LED strip
Mounting clip		94-02-00-0025	Transparent PVC mounting groove size:1000*9.8*9.5mm,suitable for 10mm FPC silicone extruded EF 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 ST/ET/EH/EF/SF waterproof LED strip
K-1000C Program-controlled digital controller		23-01-00-0048	Power supply: direct current 5V-24V input Power consumption： 2W Data transferring port :1 (1*1024 pixel) Storage type: SD card

| K-4000C Program-controlled digital controller		23-01-00-0049	Power supply: direct current 5V-24V input Power consumption: 5W Data transferring port : 4 (4*1024 pixel) Storage type: SD card
K-8000C Program-controlled digital controller		23-01-00-0050	Power supply: direct current 5V-24V input Power consumption: 5W Data transferring port :8 (8*1024 pixel) Storage type: SD card

▼Order Code Formats

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

| 9：Silk Printing		10：Entery cable		11：Wire type		12：Wire length		13：Tape type		14：Label Type		15：Strip Length	
N	Neutral	S	Single	A	red and black cable	012	12cm	W	White 3M	C	COLORS	0500	5m
C	COLORS	D	Doubel	B	SM-male wire	020	20cm	Y	Yellow 3M	S	Customized		
S	Customized	X	Nothing	C	SM-female wire	050	50cm	R	Red tape				
				X	Nothing	100	100cm	X	Nothing				
						0	Nothing						
N		S		A		012		W		C		0500	

DM5602410NO-0RGBWNSA012WC0500

▼Packing
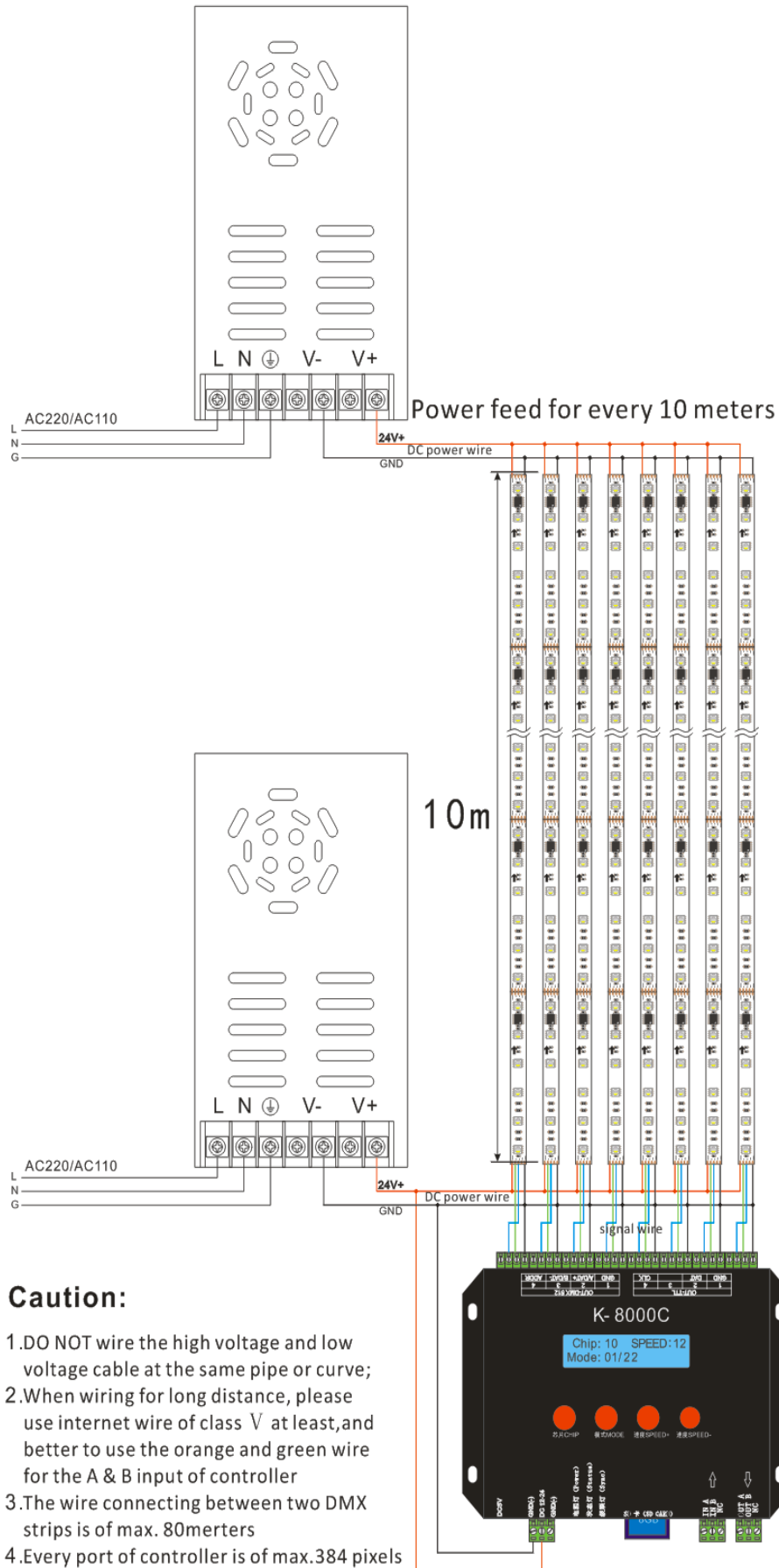
Colors brand package
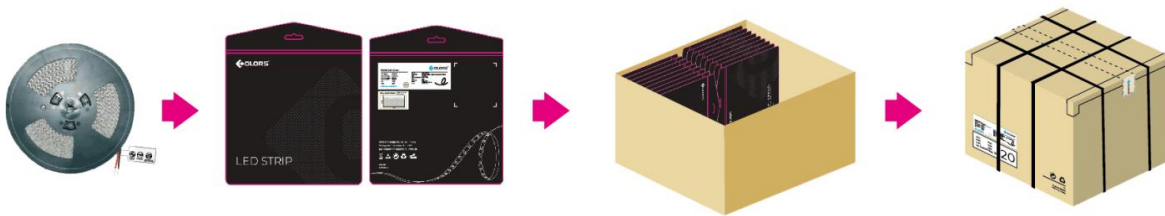
General customized package
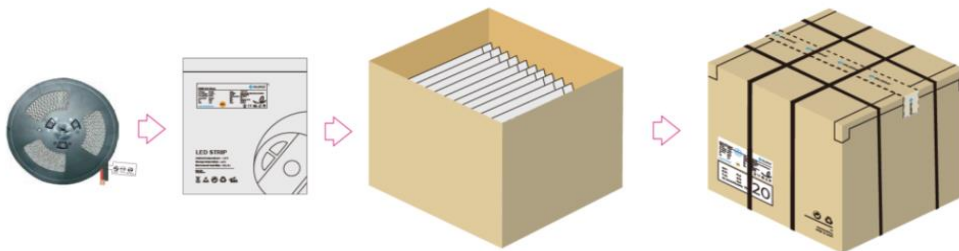
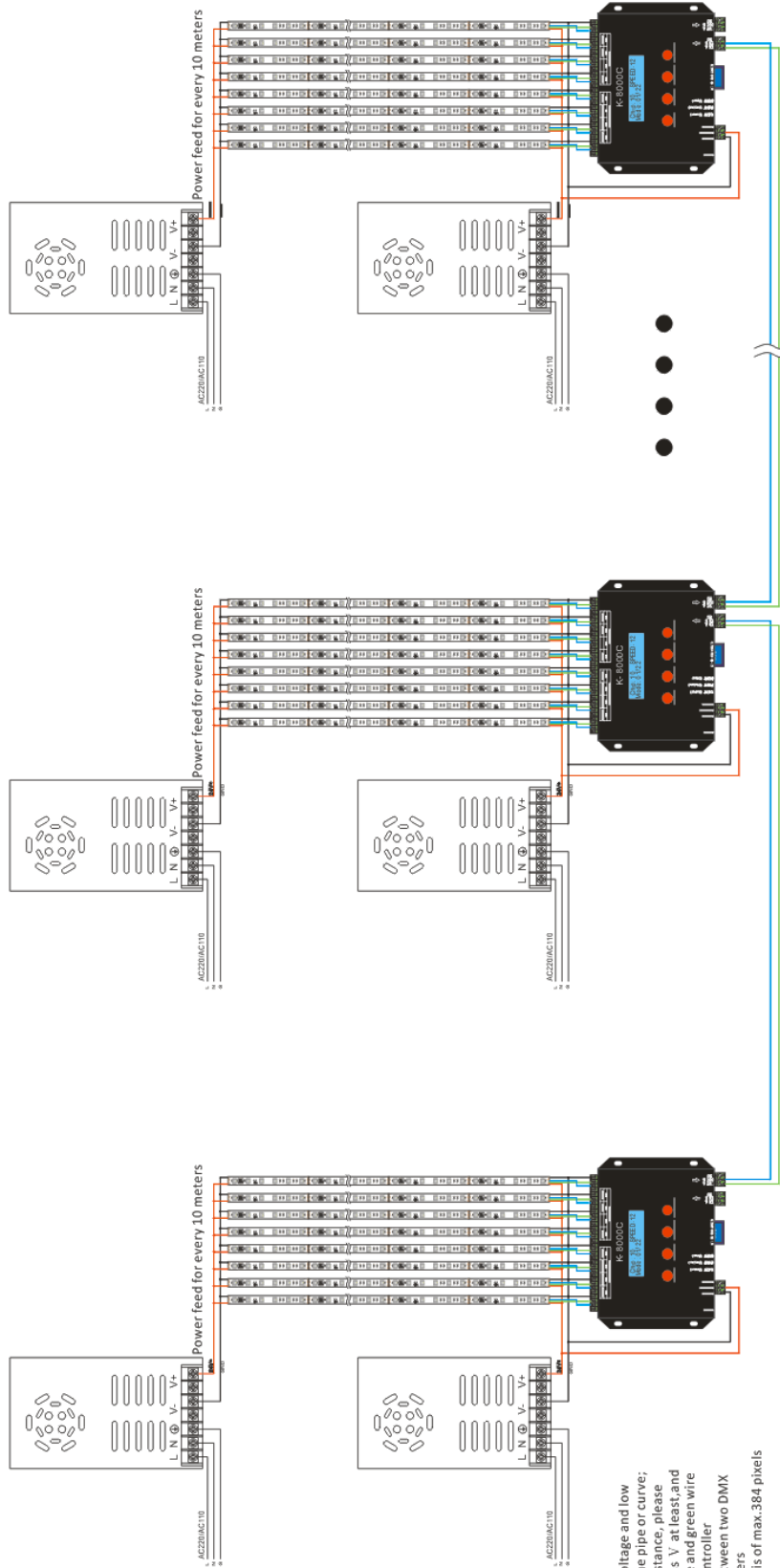| IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*10*2.1	5	250	0.175	8.75	10.063	41*41*26
NA	5000*10*2.1	5	250	0.178	8.9	10.235	41*41*26
ET	5000*12*2.8	5	200	0.505	20.2	23.23	41*41*26

Remark: data with 10% tolerance

▼Connection diagram

L N ⏚ V- V+

Power feed for every 10 meters

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

CHIP   MODE   SPEED+   SPEED-

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, and better to use the orange and green wire for the A & B input of controller
3. The wire connecting between two DMX strips is of max. 80 merters
4. Every port of controller is of max.384 pixels

Connecting diagram for DMX512 RGBW strip

Power feed for every 10 meters

K-8000C

AC220/AC110

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, and better to use the orange and green wire for the A & B input of controller

3. The wire connecting between two DMX strips is of max. 80merters

4. Every port of controller is of max.384 pixels

▼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: -25℃~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).