

Specification

DS554RGBW-48V-12mm



▼General description

- 40m long strip driven by one end power supply with the same brightness from end to end
- Strips is of lower current with 48V input, better for longer wire connection
- Ultra long application with less power feed joint, high cost efficiency for project system
- With life span over 36000H
- Ta: -25~40°C; Tc: 75°C (max)



▼Dimension

*Max.length: 40000mm(131.2 ')

Cutting unit: 18leds/166.66mm(6.56 ")

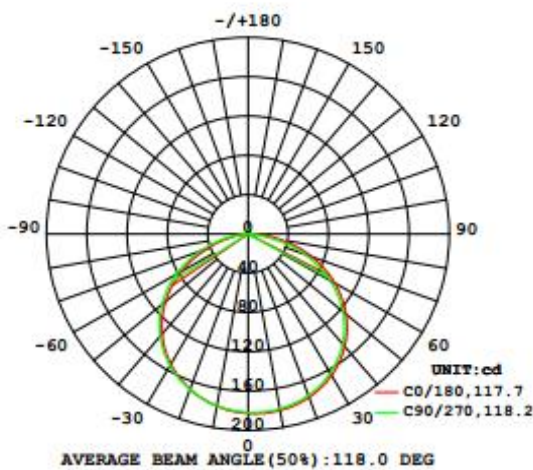
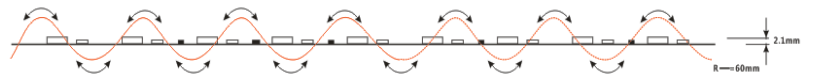
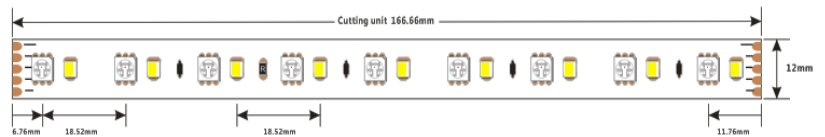
LED pitch: 18.52mm(0.73 ")

Min. bend diameter: Φ60mm(2.36 ")

Mounting: 3M tape

IP: IP20/IP65

*Warranty: 5years



Photometric of 1M strip

Height	Eavg, Emax	Angle: 117.68deg	Diameter
1m	48.51, 182.81x		330.76cm
2m	12.13, 45.691x		661.51cm
3m	5.390, 20.311x		992.27cm
4m	3.032, 11.421x		1323.02cm
5m	1.940, 7.3101x		1653.78cm
6m	1.347, 5.0771x		1984.53cm
7m	0.9900, 3.7301x		2315.29cm
8m	0.7579, 2.8561x		2646.04cm
9m	0.5989, 2.2561x		2976.80cm
10m	0.4851, 1.8281x		3307.56cm

AAI Figure

*Max.length data is based on no current difference from end to end

*Warranty is based on indoor use




▼Electronic & output data

Input voltage: DC48V	Rated current: 0.28A(1m) /11.2A(40m)
Typical Powe: 13.5W(1m) /540W(40m)	CRI: /
Max.power: 15W	On-off times: 10000 (test times)
Power range: 11.5 ~ 15W	Copper foil: 4oz






CRI	Color	CCT/ λ d	Lumen(lm)	lm/W	Energy efficiency class
/	R	620-625nm	64	20	/
/	G	525-530nm	175	55	/
/	B	465-470nm	32	10	/
80	W	4000K	240	75	A+
/	RGBW	/	510	40	/

- 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 40m 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 proof	12mm*2.1mm	/	100%
NA		Nano-proof	12mm*2.1mm	/	98%
ET		Extrusion tube	14mm*4.8mm	/	88%

▼Accessories Information

Name	Picture	Code	description
Connector for wire and FPC		94-03-00-0039	FPC with 12mm width,connector of wire and FPC,suitable for IP20 RGBW strip,18-22AWG
Connector for FPC and FPC		94-03-00-0043	FPC with 12mm width,connector of FPC and FPC,suitable for IP20 RGBW strip,18-22AWG
Fixed Clip		94-02-00-0004	Silicone clip,suitable for 12mmFPC, IP65, IP67 waterproof strip,screw:PA 3*8mm
Fixed Clip		94-02-00-0019	Fixed clip,12mm FPC,IP20,transparent, 3*8mm self-tapping screws
No silicone hole plug		94-02-00-0010	Silicone end cap without hole,suitable for 12mm FPC,IP65,IP67 waterproof RGBW strip

Mounting clip		94-02-00-0026	Transparent PVC mounting groove size:1000*16.2*9.5mm,suitable for 12mm FPC silicone extruded ET/EF strip
Stopper glue		94-16-03010001	Silicone gel,suitable for IP65 and IP67 LED strip
DC48V Switching power supply (non-waterproof)		22-01-00-0248	MODEL: SE-600-48 Input :90-132Vac/180-264Vac(Switch changing)
DC48V Waterproof electronic LED driver		22-01-00-0249	MODEL: HLG-600H-48A
controller		23-01-00-0054	MODEL: V4-X\RGBW/RGB/CCT Multifunctional dimming controller\Vin: 12-48VDC\lin: 20.5A@36/48V\Vout: 4x(12-48)VDC\Iout: 4x5A@36/48V\The factory defaults to rgbw mode\ Press Match key 15 seconds to switch to rgb mode\Press Match key 10 seconds to switch to rgbw mode
remote controller		23-02-00-0010	MODEL: RT4\RGBW/RGB multi-function remote controller\Matching controller V4-X

1.It is recommended to use the recommended solderless terminal.

2.It is recommended to use the recommended DC48V Switching power supply、 controller and remote controller.

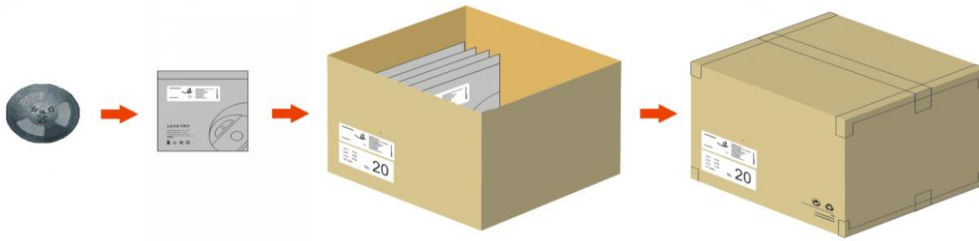
▼ Order Code Formats

1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
DS	-	5	5050	54	54RGB+54W	48	48V	12	12mm	NO	NO	0	RGBW	RGB	RGB
										NA	NANO			SW	2700K
										ET	Extrusion tube			WW	3000K
														NW	4000K
														W	6000K
DS	-	5		54		48		12		NO		0		RGBNW	
9: Silk Printing		10: Entry 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	4000	40m		
S	Customized	X	Nothing	C	SM-female wire	050	50cm	R	Red tape						
				X	Nothing	100	100cm	X	Nothing						
						0	Nothing								
N		D		A		012		W		C		0			

DS5544812NO-0RGBNWDA012WC4000

▼ Packing

General customized package

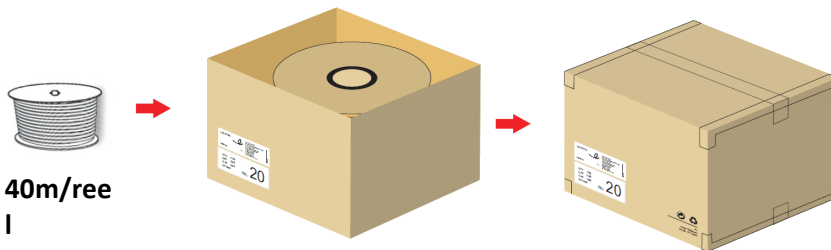


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	40000*12*2.1	40	400	1.385	13.85	15.23	41*41*26
NA	40000*12*2.1	40	400	1.392	13.92	15.31	41*41*26

Remark: data with 10% tolerance

Engineering packaging of ET(IP67)

(free-soldering end caps with 40 cover per box could be ordered separately if needed)



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)
ET	40000*14*4.8	40	80	4.081	8.162	8.627	25.5*25.5*26

Remark: data with 10% tolerance

▼ Precautions

- ※ Please drive the led strip with 48VDC 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°C~40°C.Storage temperature: 0°C~60°C.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).