LED STRIPS – LED 3527 – 24V – RGB+W – IP20 & IP65

Technical details

Product No.	**A41S24120RW0**	**A41S2412ARW0**
Led Q.ty (LEDs/m)	120	120
Led Type	3527	3527
Power (W/M)	19,2	19,2
Voltage (V)	24 ±3%	24 ±3%
Current (mA/M)	800mA	800mA
Lenght/Reel (M)	5	5
Beam	120°	120°
Water-proof rating	IP20	IP65

Non-directional or directional light source:	Non-directional (NDLS)
Mains or non-mains light source:	Non-mains (NMLS)
Dimmable:	Only with specific LED drivers
Cables type:	PVC 80°C 20AWG lenght 36cm (double ended)
Pcb material:	COPPER
Tape type:	3M 9080
Energy rating:	**G**
Protection against electric shock:	Class III
Version:	Integral
Safety isolating:	See electronic controlgear
Lumen maintenance factor:	96%
Survival factor:	100%
Nominal lifetime LM-80:	L_{70} B_{50} >54000 h
Photobiological Safety (Blue light hazard) according to IEC TR 627778:	Risk Exempt (RG0 group)

***Energy class is calculated according to Spectrum test measurements

Lumens per meter

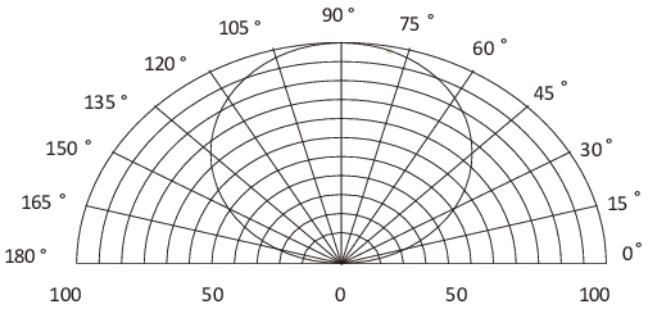
Color Temperature	A41S24120RW0	A41S2412ARW0
2700K	430 lm	400 lm
RED	171 lm	160 lm
GREEN	395 lm	392 lm
BLUE	92 lm	88 lm
RGB+W	1040 lm	1020 lm

● **Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.**

Efficacy

Color Temperature	A41S24120RW0	A41S2412ARW0
2700K	90 lmW	83 lmW
RED	36 lmW	33 lmW
GREEN	82 lmW	82 lmW
BLUE	19 lmW	18 lmW
RGB+W	56 lmW	54 lmW

Light distribution

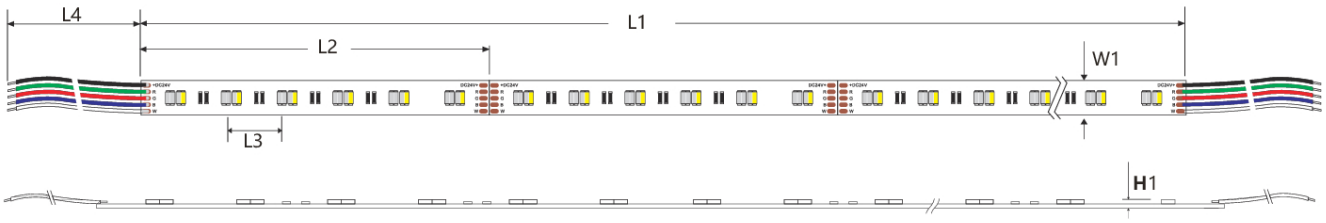


Relative luminous intensity Iv %

Working conditions

Working Temperature (°C)	-20 ÷ 50
Storage Temperature (°C)	-30 ÷ 80
Voltage Range (Vdc)	23 ÷ 25
Reverse Voltage (Vdc)	25
Reference temperature (Tc)	80° C

Dimensions



Dimensions	A41S24120RW0	A41S2412ARW0	Tolerance
L1(mm)	5004	5004	± 10
L2(mm)	100	100	± 1
L3(mm)	16.7	16.7	± 0.2
L4(mm)	360	360	± 5
W1(mm)	10	10	± 0.1
H1(mm)	2.1	3.2	± 0.1

Weight/5m reel

A41S24120RW0	150 gr.
A41S2412ARW0	235 gr.

Safety warning

- Install in accordance with national standards and local electrical codes.
- This product must be installed and maintained by a qualified electrician.
- Only install it with Class 2 DC constant voltage driver, do not use this product if it does not comply with Class 2 standard.
- The power of drive must meet the output of the rated power, and do not exceed the specified output power.
- Use a cable with rated temperature at least 80 ° C and be certified for external connection of the electrical equipment.
- Improper electrical installation may cause the cable to overheat and cause a fire. Please use a suitable cable between the driver, the lamp, and the controller. When selecting a wire, the voltage and current must meet the rated values.
- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- To avoid mechanical damage, the LED modules should be mounted securely to the intended substrate. Heavy vibration should be avoided.
- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Observe correct polarity! Incorrect polarity will lead to no light emission and may cause damage of the LED module.

- Parallel connection is highly recommended as safe electrical operation mode. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
- When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation at soldering points between module and the mounting surface.
- Pay attention to ESD steps when mounting the module.
- Please ensure that the power supply is of adequate power to operate the total load.
- Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable protection class.
- This product is not resistant to vulcanization, LED vulcanization damage will not be compensated. It is the responsibility of the user to provide appropriate protection against harmful sulphide components.