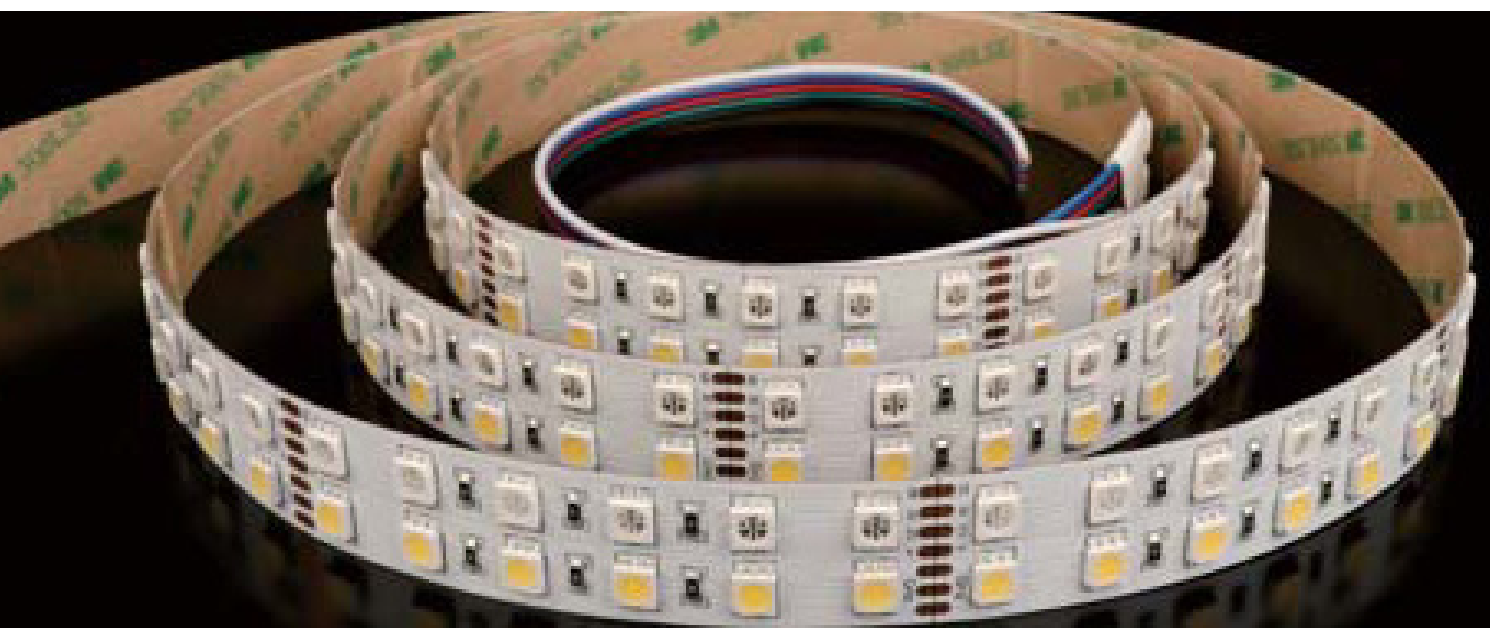


PROTECH LED

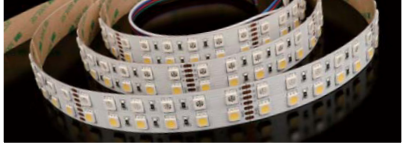
be creative



LED STRIP SPECIFICATION

AT-RGBW60-X-1





AT-RGBW60-X-1

DESCRIPTION

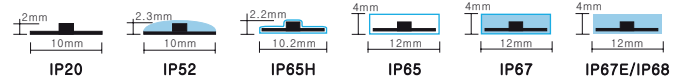
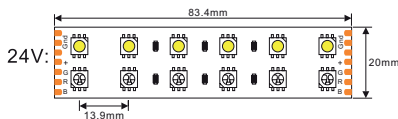
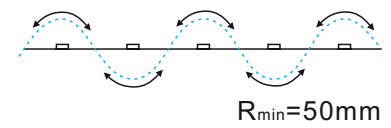
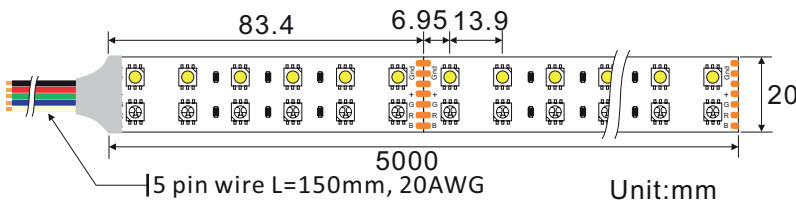
24V, flexible LED strip (12LED/step =83.4mm) with 3M adhesive tape on the back for easy installed.

2040lm/m at 34.4W/m. 120° beam angle. Very good color reproduction with CRI>90. "One Bin Only" within 3 MacAdam guarantees constant color temperature and high light quality at a lifetime of 54,000 hours (L70).

Double-layer FPC(2Oz) for good heat dissipation.



DIMENSIONS & WATERPROOF



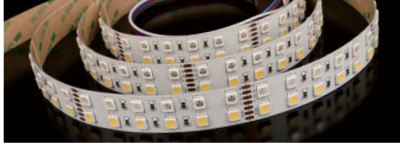
PRODUCT SPECIFICATION

Dimension	5000 x 20 x 2 mm
Chip Type	5050SMD
Chips Density	144 LEDs/m
Step LEDs	12 LEDs
Step Length	83.4 mm

Voltage (V)	DC24V
Current(A/m)	1.43A
Power(W/m)	34.4 W (4 colors 100% on)
Beam Angle	120°
Operation Temperature	-20°C~50°C

PRODUCT PHOTOMETRICS - WHITE DIODES ONLY (DATA BASE ON IP20 CRI>90)

CCT (K)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/m)	CRI	R9
2100±100	900	16.67	54	95	93
2400±100	1050	16.94	62	96	95
2700±100	1150	16.43	70	95	87
3000±100	1220	16.49	74	95	90
4000±200	1260	15.95	79	94	93
6000±300	1360	16.00	85	93	97



AT-RGBW60-X-1

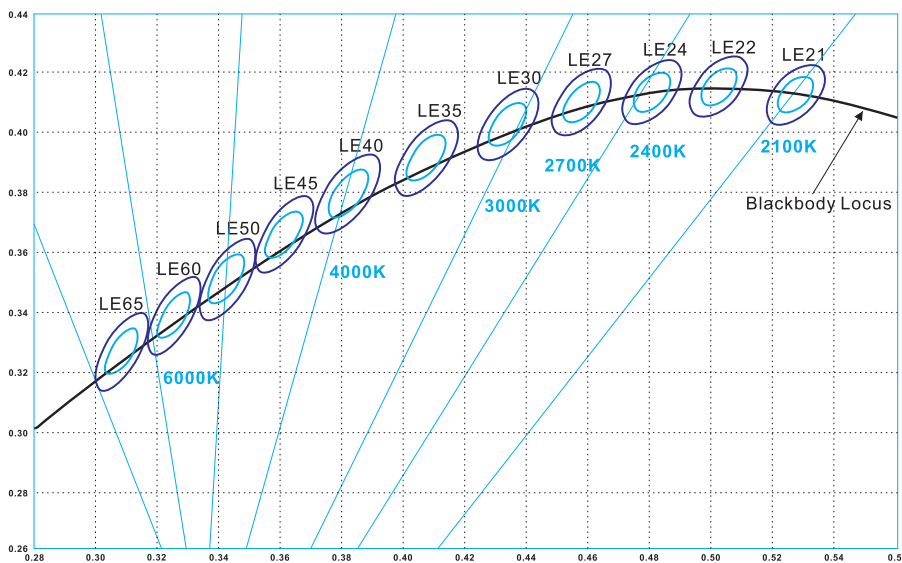
PRODUCT PHOTOMETRICS - RED, GREEN AND BLUE DIODES (DATA BASE ON IP20)

Color	Peak Wavelength (nm)	Dominant Wavelength (nm)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/m)
RED	632	621	140	4.83	29
GREEN	518	524	500	6.02	83
BLUE	462	466	90	5.63	16

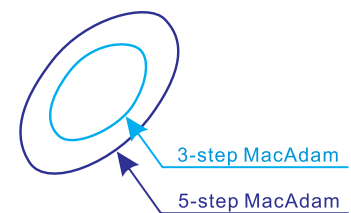
PRODUCT PHOTOMETRICS - ALL FOUR COLOR AT 100% ON (DATA BASE ON IP20 CRI >90)

CCT (K)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/m)	CRI	R9
RGB+2100	1600	32.65	49	47	-
RGB+2400	1740	33.46	52	54	-
RGB+2700	1850	32.46	57	63	-
RGB+3000	1900	32.76	58	65	-
RGB+4000	1930	32.17	60	70	-
RGB+6000	2040	31.88	64	76	-

BINNING



Graphic Description:



- IP20:** bare, max. light output and the best color consistency, indoor use.
- IP52:** Silicone coating, ~5% less output and 3rd best color consistency, indoor use, for damp environments.
- IP65:** Silicon tube / Heat shrink tube / Extrusion tube / U milky tube + clear cover, ~3% less output and 2nd best color consistency, Indoor use or semi-outdoor use, for raining environments.
- IP67:** Silicone tube + silicon filling, ~7% less output and 4th best color consistency, outdoor use, max length is 10 meters.
- IP67E:** Solid silicone extrusion, ~7% less output and 4th best color consistency, outdoor use, max length up to 50 meters.
- IP68:** SPU (Polyurethane), ~7% less output and 4th best color consistency, underwater, within 2 meters deep.