



DiffuseFlex LED

Flexible Diffused LED Tape

Diffused Flexible LED Strips Available in Multiple Colour Temperature and Colour Options

Our DiffuseFLEX™ creates a beautiful diffused output of light which prevents any pixelization typically seen with our original FlexLED strips. Our industry leading full spectrum white LEDs produce beautiful white light rated at CRI 97 or above. Available in 2400K, 2700K, 3000K, 4000K, 5500K, 6500K, Colour Temperature Adjustable (2700K - 5500K), RGB, RGB+W (2400K, 2700K, 3000K, 4000K, 5500K, 6500K), as well as various individual pixel protocol options. DiffuseFlex is IP65 rated making it an excellent choice for use in indoor and outdoor applications. DiffuseFLEX™ is compatible with any of our constant voltage controllers. As well the GS8208 pixel version is compatible with our LFXFBX & PixlArt416 controllers or theoretically any device that outputs APA102 pixel protocol. Stocked industry standard lengths of 5 meters and 10 meters. Controller, power supply and extension cables sold separately. Custom lengths of DiffuseFLEX™ including various connector options are quickly manufactured with our team of technicians.

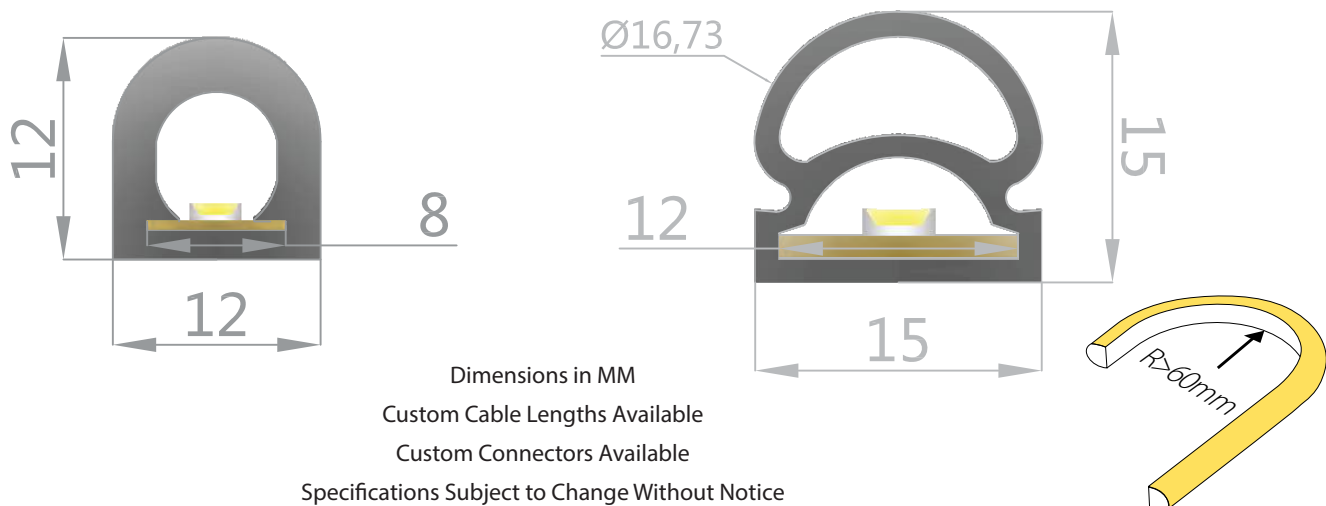
- Suitable for on-camera use, or anywhere a high-quality white light is required.
- High CRI (Colour Rendering Index) >90. No green spike or colour spectrum deficiencies.
- Indoor and weatherproof strips have 3M double-sided tape on the back which makes installation as easy as peel n stick.
- Waterproof must be mounted using silicone (not provided).
- Maximum recommended length in order to prevent line-loss is 10m (32').
- Controller, Power supply and Extension Cables sold separately.
- Quantity Discounts and Custom Color Temperatures available. Please call to inquire.

Soldering Guidelines: Soldering iron should be between 360°C and 372°C. Please ensure not to heat each solder pad for longer than 3 seconds otherwise separation of the solder pads can occur. Pricing is for 10 meters (32.81')

PIXEL APA102	≥97 CRI	24V DC	180° BEAM ANGLE	5 years	Dimmable	10M (32.8')	5M (16.4')	CUSTOMIZED LENGTHS
UL LISTED E489028	RoHS	CE	12X12MM 15X15MM	IP65 OUTDOOR	RGB+W	RGB	White	CCT Adjustable

White, Bi-Colour (CCT Adjustable)

RGB, RGBW, PIXEL

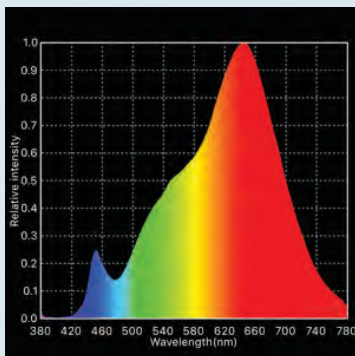


TECHNICAL SPECIFICATIONS

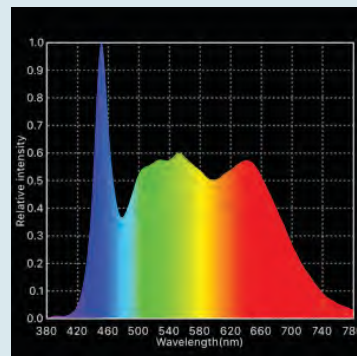
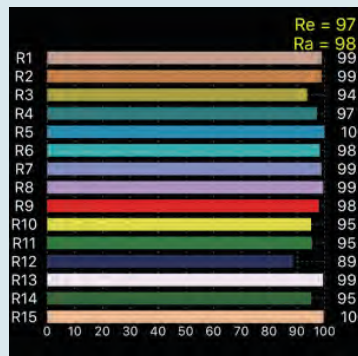
NO:	WHITE & BI-COLOUR		
1	PRODUCT TYPE	DIFFUSEFLEX STATIC WHITE	DIFFUSEFLEX BI-COLOUR (CCT ADJUSTABLE)
2	PRODUCT CODE	DFLX-O24V-XXYY-140-10M	DFLX-O24V-BCXXYY-280-10M
3	CRI / TLCI	≥97	
4	KELVIN/WAVELENGTH*	2700K / 3000K / 4000K / 5500K / 6500K	2700K - 6000K (1800 - 6500K AVAILABLE)
5	HOUSING COLOUR	WHITE	
6	CURRENT, RATING	0.832 A / METER	
7	VOLTAGE	24DC	
8	WATTAGE	0.832 A / METER	
9	CC / CV	CONSTANT VOLTAGE	
10	IP RATING	IP65	
11	LUMENS/METER @ FULL	2000 -> 2700 LM	1000 -> 2600 LM
12	LUMEN / WATT	100 ~ 135 lm/watt	50 ~ 130 lm/watt
13	LIFETIME*	30,000 HOURS (5 YEAR WARRANTY)	
14	CUTTING LENGTH	5CM	
15	LEDS/METER QUANTITY	140	280
16	NUMBER OF CONTACTS	2	3
17	LED TYPE	2835	
18	PCB COPPER QUANTITY	3 Oz.	
19	TEMPERATURE, OPERATING RANGE	-35 - 50° C	
20	BEND RADIUS, MAXIMUM	R> 60MM	
21	AGENCY RATINGS	cULus E489028 / CE / RoHS	
22	DIMENSIONS	12 X 12 MM	
23	MAXIMUM RECOMMENDED LENGTH	10 METERS	
24	VIEWING ANGLE	180°	
25	ADHESION	VHB 5952	
26	FACTORY STANDARD LENGTH	10 METERS	

* - OPTIONAL SINGLE COLOUR WAVELENGTHS ARE AVAILABLE - RED / ORANGE / YELLOW / GREEN / BLUE / PURPLE

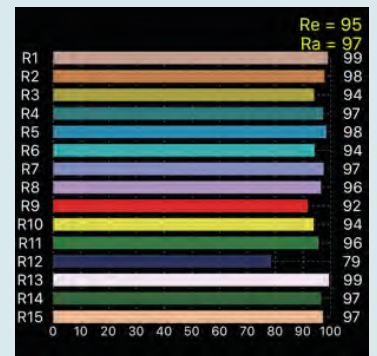
* - NOMINAL LIFETIME BASED ON IDEAL INSTALLATION LOCATION CONDITIONS & ASSUMING MAXIMUM OF 16 HOURS PER DAY OF USE



SAMPLE PHOTOMETRIC OUTPUT DATA (2700K WHITE)



SAMPLE PHOTOMETRIC OUTPUT DATA (6000K WHITE)



DO NOT install with power applied to device. DO NOT expose device to excessive moisture above rated IP.

TECHNICAL SPECIFICATIONS

NO:	RGB + RGBW + PIXEL			
1	PRODUCT TYPE	DIFFUSEFLEX RGB	DIFFUSEFLEX RGB+W	Pixel GS8208
2	PRODUCT CODE	DFLX-O24V-RGB-120-10M	DFLX-O24V-RGBWXX-120-10M	DFLX-O12VD1515-RGBNA-10MBEWGS8208
3	CRI / TLCI	N/A	≥95	N/A
4	KELVIN/WAVELENGTH	RED/GREEN/BLUE	RGB + (2700K/3000K/4000K/5500K)	Colour Changing
5	HOUSING COLOUR	WHITE		
6	CURRENT, RATING	0.832 A / METER		1.5 A / METER
7	VOLTAGE	24VDC		12VDC
8	WATTAGE	20 W / METER		18 W / METER
9	CC / CV	CONSTANT VOLTAGE		CONSTANT CURRENT (PIXEL CONTROL)
10	IP RATING	IP65		
11	LUMENS/METER @ FULL	875 LM	1728 LM	XX lm / METER
12	LUMEN / WATT	44	86	N/A
13	LIFETIME*	30,000 HOURS (5 YEAR WARRANTY)		
14	CUTTING LENGTH	5 CM		
15	LEDS/METER QUANTITY	120		
16	NUMBER OF CONTACTS	4	5	4
17	LED TYPE	5050	5060	5050 GS8208
18	PCB COPPER QUANTITY	3 Oz.		
19	TEMPERATURE, OPERATING RANGE	-35 - 50° C		-40 - 50° C
20	BEND RADIUS, MAXIMUM	R> 60MM		N/A
21	AGENCY RATINGS	cULus E489028 / CE / RoHS		UL E489028, CE, RoHS
22	DIMENSIONS	15 X 15MM		15MM
23	MAXIMUM RECOMMENDED LENGTH	10 METERS		
24	VIEWING ANGLE	180°		
25	ADHESION	VHB 5952		
26	FACTORY STANDARD LENGTH	10 METERS		10 METERS (POWERED FROM BOTH ENDS)

* - CUSTOM PIXEL PROTOCOLS ARE AVAILABLE

* - NOMINAL LIFETIME BASED ON IDEAL INSTALLATION LOCATION CONDITIONS & ASSUMING MAXIMUM OF 16 HOURS PER DAY OF USE

DIFFUSEFLEX SKU ORDERING CODES

DFLX	O	24V	XXXXXXXX	YYY	ZZZ
1	2	3	4	5	6
Series	IP Rating (IP65)	Operating Voltage	LED Type	LED / Meter	Length

1 Family Series
DFLX

2 IP Rating
IP65

3 Voltage
24V 24 Volt DC (Standard)
12V 12 Volt DC (Custom or Pixel Protocols)
5V 5 Volt DC (Pixel Protocols Only)

5 LEDs / Meter
140 Standard Static White / Single Colour
120 Standard RGB / RGBW
280 Standard Bi-Colour / Colour Temperature Adjustable
144 Standard APA102 Pixel Protocol

6 Length in Meters
10M Standard Length For All DiffuseFlex Except for Pixel
4.5M Standard Length For DiffuseFlex Pixel

4 LED Type
XXYY XX (Colour Range) = WW / NW / CW
YY (Colour Temperature) = 24 / 27 / 30 / 40 / 55
BCXXYY BC = Bi-Colour
XX = Colour Temperature = 18/ 24/ 27/ 30/ 40 / 55 / 65
YY = Colour Temperature = 18/ 24/ 27/ 30/ 40 / 55 / 65
RGB RGB = Red / Green / Blue
RGBWXX RGBW
XX = Colour Temperature = 27 / 30 / 40 / 55
RGBAPA102 RGB Pixel Protocol

Optional Accessory Items for White & Bi-Colour
DFLX-CLP-12MM Metal Mounting Clips 12MM
DFLX-ECWH-12MM End Cap With Hole 12MM
DFLX-ECC-12MM End Cap Closed 12MM

Optional Accessory Items for RGB, RGBW & Pixel
DFLX-CLP-15MM Metal Mounting Clips 15MM
DFLX-ECWH-15MM End Cap With Hole 15MM
DFLX-ECC-15MM End Caps Closed 15MM

Replacement Adhesive
3MVHB4950-12.7MM Adhesive for Attaching to Metals
3MVHB5952-12.7MM Adhesive for Attaching to Plastics