BELA TAPE PIXEL RGBW

Indoor · PIXEL RGBW

Date

Fixture type

Project name

Project phase

Features

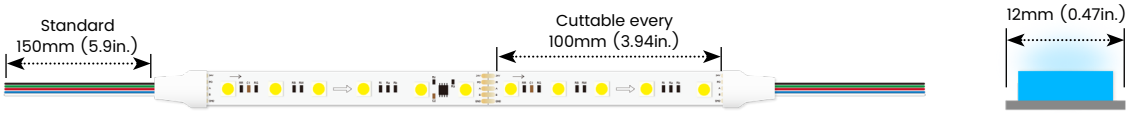
- 4 colors in 1 diode SMD tape, addressable every increment with dynamic RGBW effects
- IP20 rated, ideal for indoor non-condensing uses
- 5 years warranty

Applications

Under cabinets, coves, theme parks, bedrooms, studios, etc.



Dimensions



Order Code

Model	Environment	Voltage	CCT	Power
BELA	**D2**-Dry (IP20)	**24V**-DC24V	**PRGBW27K**-Pixel RGBW2700K **PRGBW30K**-Pixel RGBW3000K **PRGBW35K**-Pixel RGBW3500K **PRGBW40K**-Pixel RGBW4000K	**180**-18W/M

Assembly Builder

Left Feed Entry			
F	Front	**OW**	Open wire 150mm(5.9in.)
C	Closed	**MC**	Male connector with 200mm(7.87in.) cable
		FC	Female connector with 200mm(7.87in.) cable
		NA	Only for Closed Feed Entry

Assembly Builder

Right Feed Entry			
F	Front	**OW**	Open wire 150mm(5.9in.)
C	Closed	**MC**	Male connector with 200mm(7.87in.) cable
		FC	Female connector with 200mm(7.87in.) cable
		NA	Only for Closed Feed Entry

Length	
Increment	100mm (3.94in.)

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Channel Order Code

Product Code	Colors*	Lens	Clip*	Length
Please select on the Extrusion Compatibility page	**S** Silver anodized **W** White lacquered **B** Black anodized	**OP** Opal **FR** Frosted **CL** Clear	**MCL** Metal clip **PCL** Plastic clip **ACL** Adjustable angle clip	1m(3.28ft) 2m (6.56ft)

*For custom RAL colors, please inquire.
*Please refer to the Channel Compatibility page for compatible clip options.

BELA TAPE PIXEL RGBW

Indoor · PIXEL RGBW

Lumen Output (lm/m)

CCT	18W/M
R	89
G	234
B	70
W27K	235
W30K	241
W35K	245
W40K	245
PRGBW27K	575
PRGBW30K	591
PRGBW35K	600
PRGBW40K	600
Max. Run Length	5m

Techinical Details

Width	12mm (0.47in.)
LED Quantity	60 LEDs/M (18 LEDs/ft)
Beam Angle	120°
Efficacy	33lm/W @PRGBW30K 18W
CRI	Ra≥90
LED MacAdam	3 steps
Average Life (L70)	>30,000 hours
Max. Length Per Reel	50m(164ft)
Pixel/M	10
Pixel Size	100mm/pixel
Storage Temperature	-25°C~ 60°C
Ambient Temperature	-25°C~ 45°C

Feed Entry Options



F: Front

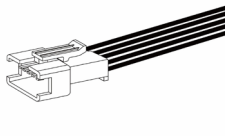


C: Closed

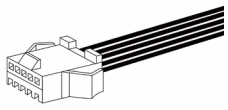
Connector Wire Options



OW: Open wire, **Dry only**
Standard 150mm(5.9in.),22 AWG,
wire length customizable



MC: Male connector, **Dry**
Standard 200mm(7.87in.), 22 AWG



FC: Female connector, **Dry**
Standard 200mm(7.87in.), 22 AWG

BELA TAPE PIXEL RGBW

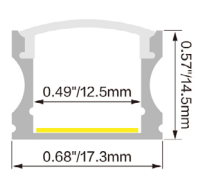
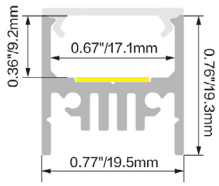
Indoor · PIXEL RGBW

Channel Compatibility

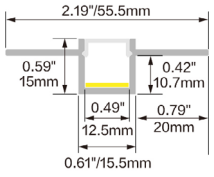
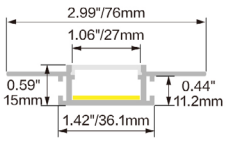
*Non-standard option, please contact us for customization support.

Lens Type & Light Transmission		
CL Clear	FR Frosted	OP Opal

Surface

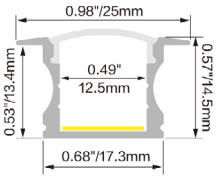
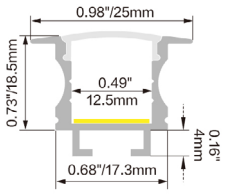
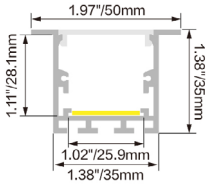
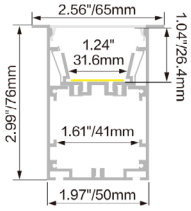
BE1202	BE1919
CL 67% FR 61% OP 50%	CL 82% FR 75% OP 61%
	
Accommodates 1 LED strip	Accommodates 1 LED strip
Clip Options: Metal/Plastic/Adjustable angle clip	Clip Options: Metal clip

Mud-in

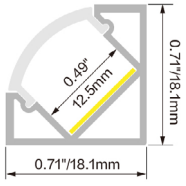
BE5615	BE7615
CL 64% FR 58% OP 48%	CL 75% FR 69% OP 56%
	
Accommodates 1 LED strip	Accommodates up to 2 LED strips
Clip Options: N/A	Clip Options: N/A

BELA TAPE PIXEL RGBW

Recessed

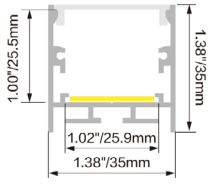
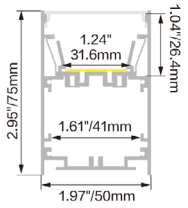
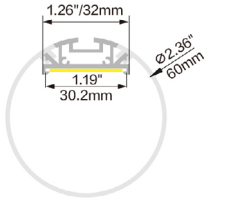
BE1201	BE1207	BE5035	BE6575
CL 66% FR 60% OP 49%	CL 65% FR 59% OP 48%	CL 56% FR 51% OP 42%	CL 67% FR 61% OP 50%
			
Accommodates 1 LED strip	Accommodates 1 LED strip	Accommodates up to 2 LED strips	Accommodates up to 2 LED strips
Clip Options: Metal/Plastic clip	Clip Options: Spring clip	Clip Options: Spring clip	Clip Options: N/A

Corner

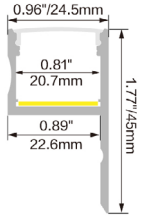
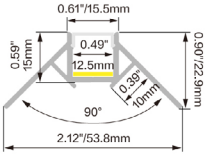
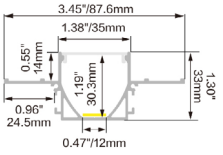
BE1203
CL 78% FR 72% OP 59%

Accommodates 1 LED strip
Clip Options: Metal/Plastic clip

BELA TAPE PIXEL RGBW

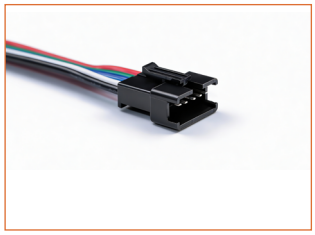
Suspended

BE3535	BE5075	BE60
CL 73% FR 67% OP 55%	CL 64% FR 58% OP 48%	CL 90% FR 82% OP 67%
		
Accommodates up to 2 LED strips	Accommodates up to 2 LED strips	Accommodates up to 2 LED strips
Clip Options: Metal clip	Clip Options: Metal clip	Clip Options: Metal clip

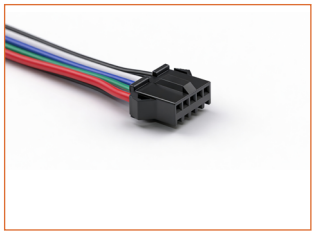
Specialty

BE2009 Coves	BE5315 Borderless Outside Corner	BE8833 Cove Recessed / Double-Layer Borderless
CL 59% FR 54% OP 44%	CL 62% FR 56% OP 46%	CL 61% FR 55% OP 45%
		
Accommodates 1 LED strip	Accommodates 1 LED strip	Accommodates 1 LED strip
	Clip Options: N/A	Clip Options: N/A

Additional Accessories (Optional, purchase for extra)



MC-5P-20
Male connector,
200mm (7.87in.) red&black cable,
5 pin, IP20, 22 AWG



FC-5P-20
Female connector,
200mm (7.87in.) red&black cable,
5 pin, IP20, 22 AWG



VHB
VHB 3M adhesive back tape, stronger stickiness

BELA TAPE PIXEL RGBW

Drivers

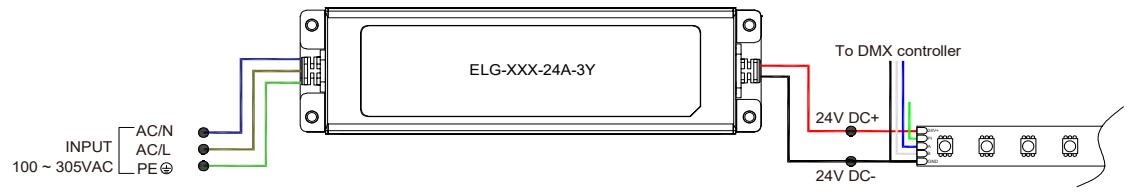
Non-dimmable

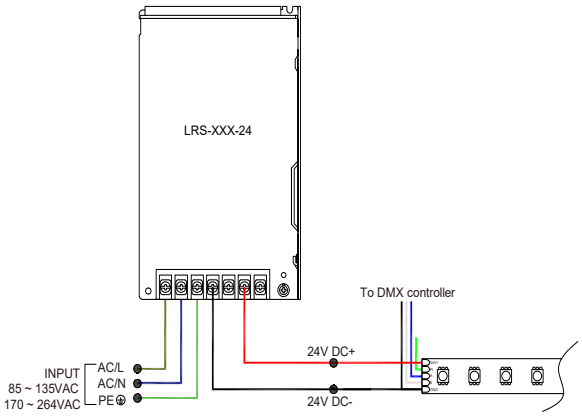
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24A-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
LRS-150-24	150W	85-132VAC / 170-264VAC	24V	Dry	159 * 97 * 30 mm

DMX-Decoders & Controllers Options

Type	Code	Description	Environment	Size (L x W x H)
Controllers	CW4	1024 DMX channels, 6 scene buttons and a color wheel, ideal for hotels, homes and public	Indoor	145 * 107 * 10 mm
Controllers	Artnet-DMX-8	8 DMX universes, Artnet- to-DMX512 converter with RJ45 port, ideal for lighting control	Indoor	483 * 200 * 44 mm
Controllers	WT-DMX-M	WiFi & RF 3-in-1 DMX512 controller for RGB/RGBW/RGBCCT lighting	Indoor	120 * 43 * 27 mm

Wiring Diagram





BELA TAPE PIXEL RGBW

24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	484.0m	304.5m	191.4m	120.4m	75.5m	47.5m	29.8m	18.5m
20W / 0.8A	242.0m	152.1m	95.7m	60.0m	37.8m	23.7m	14.9m	9.1m
30W / 1.3A	161.2m	101.5m	63.7m	39.9m	24.9m	15.8m	9.7m	6.1m
40W / 1.7A	121.0m	75.9m	47.8m	29.8m	18.9m	11.8m	7.3m	4.5m
50W / 2.1A	96.6m	60.6m	38.1m	24.0m	14.9m	9.4m	5.7m	3.6m
60W / 2.5A	80.4m	50.6m	31.7m	19.8m	12.5m	7.9m	4.8m	3.0m
70W / 2.9A	68.8m	43.2m	27.1m	17.0m	10.6m	6.7m	4.2m	2.4m
80W / 3.3A	60.3m	37.8m	23.7m	14.9m	9.4m	5.7m	3.6m	2.1m
90W / 3.8A	53.6m	33.8m	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m
100W / 4.2A	48.1m	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m
110W / 4.6A	43.8m	27.4m	17.3m	10.6m	6.7m	4.2m	2.7m	1.5m
120W / 5.0A	40.2m	25.3m	15.8m	9.7m	6.1m	3.9m	2.4m	1.5m
130W / 5.4A	37.1m	23.1m	14.6m	9.1m	5.7m	3.6m	2.1m	1.2m
140W / 5.8A	34.4m	21.6m	13.4m	8.5m	5.1m	3.3m	2.1m	1.2m
150W / 6.3A	32.0m	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m
160W / 6.7A	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m	0.9m
170W / 7.1A	28.3m	17.6m	10.9m	7.0m	4.2m	2.7m	1.5m	0.9m
180W / 7.5A	26.8m	16.7m	10.3m	6.7m	3.9m	2.4m	1.5m	0.9m
190W / 7.9A	25.3m	15.8m	10.0m	6.0m	3.9m	2.4m	1.5m	0.9m
200W / 8.3A	24.0m	14.9m	9.4m	5.7m	3.6m	2.1m	1.2m	0.9m
210W / 8.8A	22.8m	14.3m	8.8m	5.4m	3.3m	2.1m	1.2m	0.6m
220W / 9.2A	21.9m	13.7m	8.5m	5.4m	3.3m	2.1m	1.2m	0.6m
230W / 9.6A	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m	1.2m	0.6m
240W / 10.0A	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m	0.6m
250W / 10.4A	19.2m	12.1m	7.6m	4.5m	2.7m	1.8m	0.9m	0.6m