BELA TAPE RGBW

Indoor · RGBW

Date

Fixture type

Project name

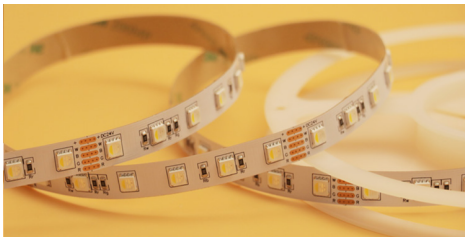
Project phase

Features

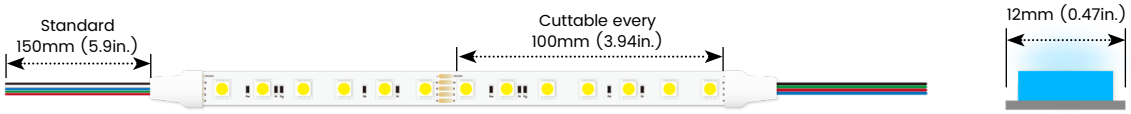
- 4 colors in 1 diode SMD tape, with changeable RGBW colors
- IP20 rated, ideal for indoor non-condensing uses
- 5 years warranty

Applications

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



Dimensions



Order Code

Model	Environment	Voltage	CCT	Power
BELA	**D2**-Dry (IP20)	**24V**-DC24V	**RGBW27K**-RGBW2700K **RGBW30K**-RGBW3000K **RGBW35K**-RGBW3500K **RGBW40K**-RGBW4000K	**144**-14.4W/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.

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Lumen Output (lm/m)

CCT	14.4W/M
R	100
G	245
B	68
W27K	220
W30K	227
W35K	230
W40K	230
RGBW27K	595
RGBW30K	610
RGBW35K	620
RGBW40K	620
Max. Run Length	5m

Techinical Details

Width	12mm (0.47in.)
LED Quantity	60 LEDs/M (18 LEDs/ft)
Beam Angle	120°
Efficacy	42lm/W @RGBW30K 14.4W
CRI	Ra≥90
LED MacAdam	3 steps
Average Life (L70)	>30,000 hours
Max. Length Per Reel	50m(164ft)
Storage Temperature	-25°C~ 60°C
Ambient Temperature	-25°C~ 45°C

Feed Entry Options



F: Front

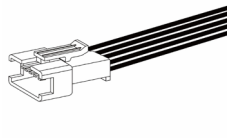


C: Closed

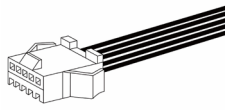
Connector Wire Options



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

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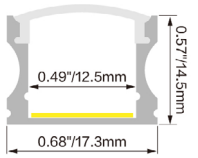
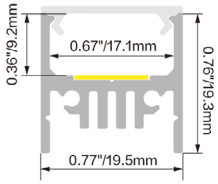
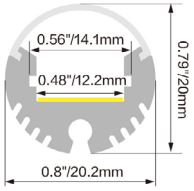
Channel Compatibility

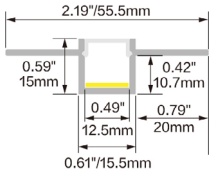
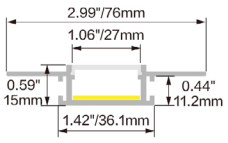
*Non-standard option, please contact us for customization support.

Lens Type & Light Transmission		
CL Clear	FR Frosted	OP Opal

Surface

BE1202	BE1919	BE2020
CL 63% FR 58% OP 47%	CL 76% FR 69% OP 57%	CL 80% FR 73% OP 60%
		
Accommodates 1 LED strip	Accommodates 1 LED strip	Accommodates 1 LED strip
Clip Options: Metal/Plastic/Adjustable angle clip	Clip Options: Metal clip	Clip Options: Metal clip

Mud-in

BE5615	BE7615
CL 59% FR 53% OP 44%	CL 70% FR 64% OP 52%
	
Accommodates 1 LED strip	Accommodates up to 2 LED strips
Clip Options: N/A	Clip Options: N/A

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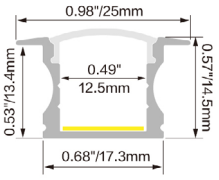
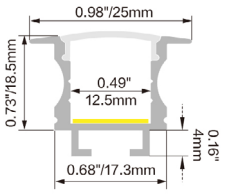
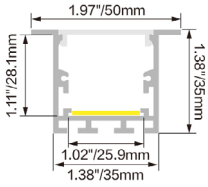
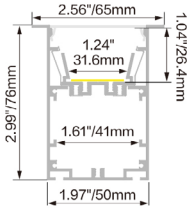
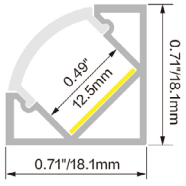
Recessed

BE1201	BE1207	BE5035	BE6575
CL 62% FR 57% OP 46%	CL 62% FR 57% OP 47%	CL 51% FR 47% OP 38%	CL 64% FR 58% OP 48%
			
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 75% FR 68% OP 56%

Accommodates 1 LED strip
Clip Options: Metal/Plastic clip

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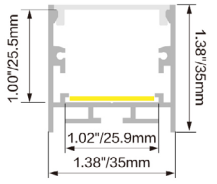
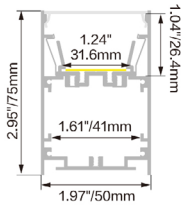
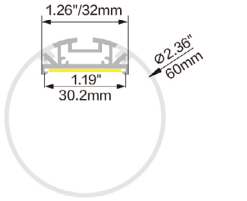
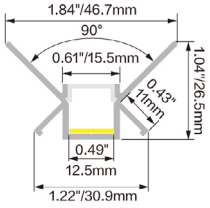
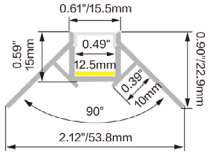
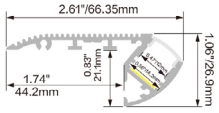
Suspended

BE3535	BE5075	BE60
CL 55% FR 51% OP 41%	CL 64% FR 58% OP 48%	CL 87% FR 79% OP 65%
		
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

BE4615 Borderless Inside Corner	BE5315 Borderless Outside Corner	BE6728 Staircase
CL 59% FR 54% OP 44%	CL 58% FR 53% OP 43%	CL 55% FR 50% OP 41%
		
Accommodates 1 LED strip	Accommodates 1 LED strip	Accommodates 1 LED strip
Clip Options: N/A	Clip Options: N/A	Clip Options: N/A

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Connectors (Optional, purchase for extra)

Max. Run Length - With Connector

Tape Power	14.4W/M
Max. Run Length	5.0m

*Note: Maximum current through the connector must not exceed 4A.



C6012-STCN-5P-12
Strip to cable connector without wire,
for 12mm (0.47in.) tape, 5 pin,IP20



C6012-STS-5P-12
Strip to strip connector,
for 12mm (0.47in.) tape, 5 pin,IP20



C6012-LC-5P-12
L-shaped corner connector,
for 12mm (0.47in.) tape, 5 pin,IP20



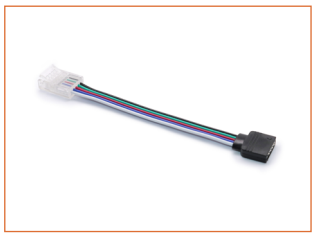
C6012-RC-5P-12
R-shaped corner connector,
for 12mm (0.47in.) tape, 5 pin,IP20



C6012-STC-5P-12
Strip to cable connector with 150mm (5.91in.) wire,
for 12mm (0.47in.) tape, 5 pin,IP20

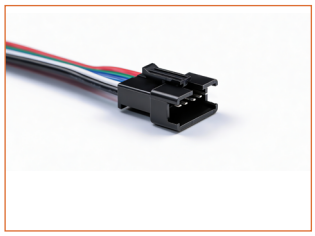


C6012-STSJ-5P-12
Strip to strip jumper connector with 150mm(5.91in.) wire,
for 12mm (0.47in.) tape, 5 pin,IP20

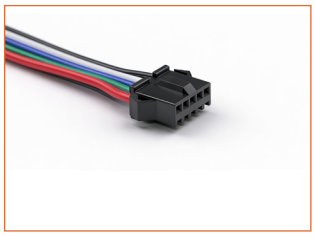


C6012-STMKB-5P-12
Strip to cable with black female connector,
for 12mm (0.47in.) tape, 5 pin,IP20

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

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Drivers

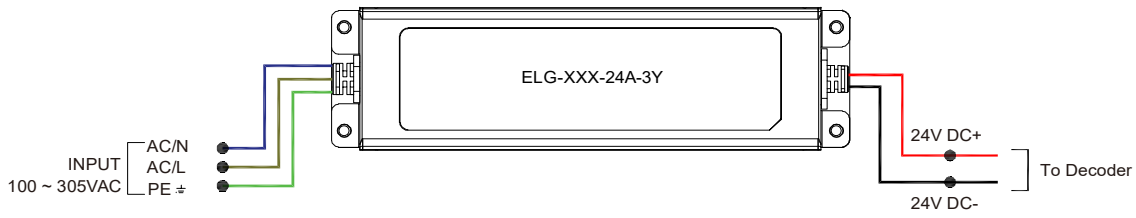
Non-dimmable

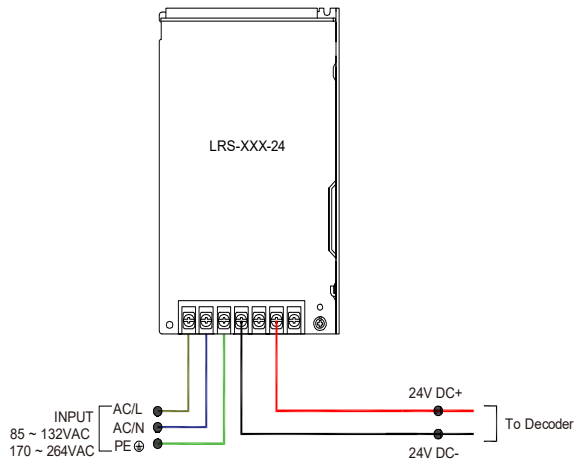
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24A-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
LRS-150-24	150W	85-132VAC / 170-264VAC	24V	Dry	159 * 97 * 30 mm

DMX-Decoders & Controllers Options

Type	Code	Description	Environment	Size (L x W x H)
DMX Decoders	D4-F	4 channels output, Max. 5A current per channel, up to 480W output power	Indoor	175 * 42 * 33 mm
Controllers	EX4S	512 DMX channels	Indoor	86 * 86 * 36 mm
Power Repeaters	LT-3040-5A	4 channels output, Max. 5A current per channel, up to 480W output power	Indoor	175 * 44 * 30 mm
Signal Amplifier	LT-123	DMX(485) signal amplifier, 1 input / 3 outputs	Indoor	192 * 80 * 41 mm

Wiring Diagram





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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