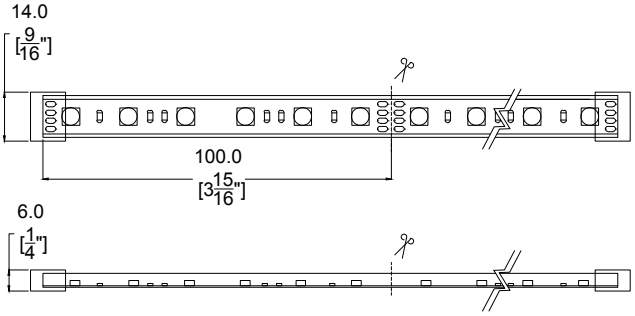
24V RGB LED RIBBON

BL-RBN-ILL-24V-RGB

DIAGRAMS - DIMENSIONS



SAMPLE APPLICATION

CONTROLLER

BL-CTRL-IR-T80	RGB Controller with IR Remote
BL-CTRL-RF-T88	RGB Controller with RF Remote
BL-CTRL-WPD-RGB	Wireless Wall Panel Dial (requires Receiver)
BL-CTRL-WIFI	WIFI Smart Device operation controller
BL-DMX-LCI	DMX Controller with preset colours and programs RF Remote
BL-DMX-SRC144	DMX Controller with 54 DMX Channels
BL-DMX-SRC174	DMX Controller with 194 DMX Channels
BL-DMX-USB	DMX USB Controller with 132 DMX Channels PC Compatible, IR Remote
BL-DMX-Touchpad	Touch sensitive DMX Controller PC Compatible 128 DMX Channels

APPLICATION

- Indoors or Outdoors - Wet or Dry locations
- Accent Lighting
- Cove Lighting
- Decorative Highlights
- Architectural, Building, Linear Outlining

c LC us

LOW

IP65

LIGHTING

LED	SMD 5060 RGB LED 60 LED/m (18 LED/ft)
Beam Angle	120°
Colour	RGB
Avg Life	50,000 hr
Lumen Output	272 lm/m (83 lm/ft)
Efficacy	22 lm/W
Control	RGB controllers 3 Channel PWM & control system

ELECTRICAL

Input Voltage*	24VDC Constant Voltage
Connections	Order Termination Kits or solder leads in field
Power Draw	12.5 W/m (3.8 W/ft)
Operating Temp	-20°C to 40°C (-4°F to 104°F) High ambient temperature will shorten LED life
Circuit	In parallel

*Do not plug directly into 120V

MECHANICAL

Housing Construction	Flexible PCB Board Silicone jacket
Min Cut Length	10 cm (3-15/16”) 6 LEDs per cut
Max Run Length	5 m (16’-4”)
Weatherability	IP65 Splash proof
Bend Radius	Medial bend of 38 mm (1.5”)

ACCESSORIES

Mounting

BL-RBN-CLP	Silicone Mounting Clip
BL-RBN-DSIDE-TAPE	Double sided tape - 1 roll of 50 m (164 ft)
BL-LOCTITE	Concrete surface clear adhesive (300 ml)
BL-DOW832	Silicone rubber adhesive sealant (300 ml)

Termination

BL-RBN-TK-RGB	Termination Kit (required per Ribbon run) - 3ft 20AWG Lead Wire installed - End Caps
BL-RBN-JC	Ribbon Light Jumper Cable Termination
BL-RBN-CAP	Cap for Ribbon Light
BL-RBN-LEAD-xx	Extra Lead for termination on top of 3ft lead wire -xx denotes wire gauge AWG (20, 18, 16, 16 Plenum)

MAX LENGTH PER DRIVER

Power	Max Length
25 W	1.8 m (6 ft)
60 W	4.5 m (15 ft)
100 W	7.5 m (25 ft)

*Other driver wattages available

**Can be composed of multiple runs, cannot exceed max single run length

Solid State Lighting is sensitive to power fluctuations
Surge protection is highly recommended for all LED lighting products and should be on a designated circuit to protect against premature failure
Lack of surge protection may void your warranty

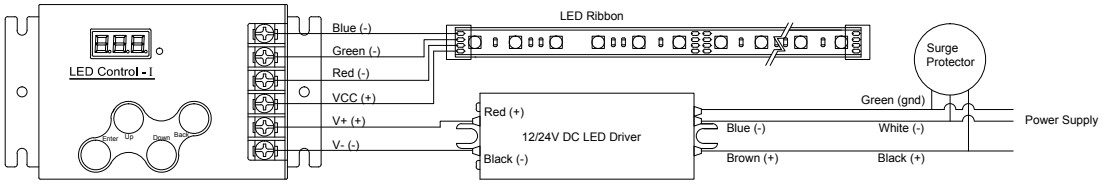
INNOVATIVE LIGHTING
111 - 8838 Heather St. Vancouver BC Canada V6P 3S8
Ph: 1-604-874-4405 • Fx: 1-604-321-0445 • www.bllighting.com • sales@bllighting.com

ORDERING

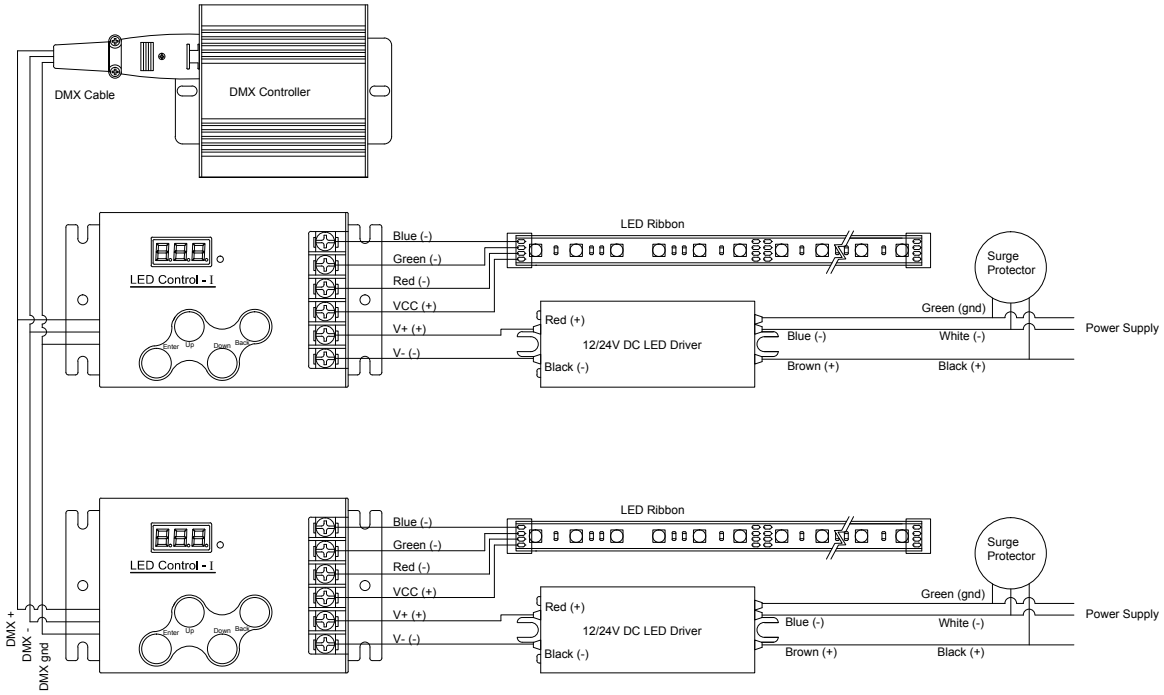
RGB LED Ribbon	Termination	Mounting	LED Driver	Enclosure	Controller	Controller Accessory	Surge Protector
BL-RBN-ILL-24V-RGB	*BL-RBN-RGB-TK*	*BL-RBN-CLP*	*BL-HTC-CV-24V-xx*	*BL-ENC-HNG-xx*	*BL-CTRL-T80*	*BL-PWM-12/24V-3CH*	*BL-SP-277-20KA*
	BL-RBN-LEAD-xx	*BL-DOW832*	*BL-HPT-CV-24V-xx*	*BL-ENC-SCW-xx*	*BL-CTRL-T88*	*BL-AMP-T85*	
	BL-RBN-CAP	*BL-LOCTITE*	*BL-GH-CV-24V-xx*	*BL-ENC-PVC-xx*	*BL-CTRL-WPD-RGB*	*BL-CTRL-RGB-2501*	
	BL-RBN-JC	*BL-RBN-DSIDE-TAPE*			*BL-DMX-LCI*	*BL-DMX-SRC143*	
					BL-DMX-USB	*BL-DMX-CABLE-1.8M*	
					BL-DMX-SRC144	*BL-DMX-CABLE-5M*	
					BL-DMX-SRC-174	*BL-DMX-CABLE-10M*	
					BL-DMX-Touchpad	*BL-DMX-CABLE-18AWG*	

CONNECTION DIAGRAM

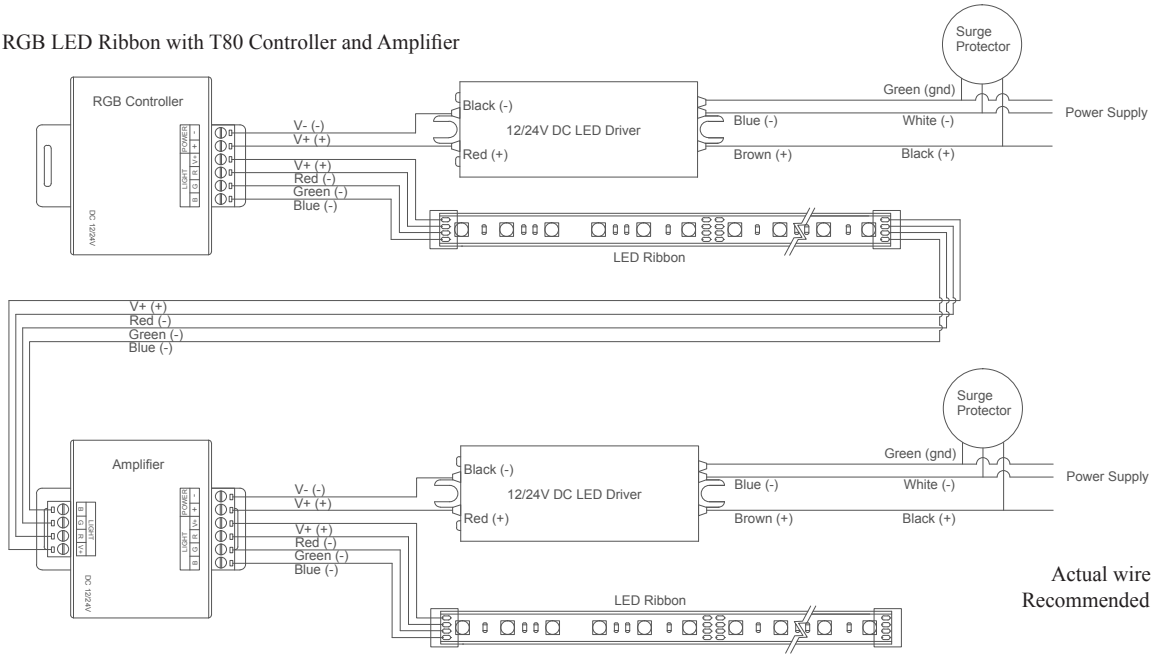
RGB LED Ribbon with LCI Controller to DMX Master controller



RGB LED Ribbon with LCI Controller to DMX Master controller



RGB LED Ribbon with T80 Controller and Amplifier



Actual wire colours may vary - follow labels on the units
Recommended to add 10% buffer when sizing power supply
LED drivers require enclosures

Solid State Lighting is sensitive to power fluctuations
Surge protection is highly recommended for all LED lighting products and should be on a designated circuit to protect against premature failure
Lack of surge protection may void your warranty

INNOVATIVE LIGHTING
111 - 8838 Heather St. Vancouver BC Canada V6P 3S8
Ph: 1-604-874-4405 • Fx: 1-604-321-0445 • www.bllighting.com • sales@bllighting.com