



WHY JUST BE GREEN WHEN YOU CAN BE COLORFUL?

The FBT RGB Series combines state of the art technology with a flexible, durable housing to create an extremely bright, uniform illumination with a versatility that makes it perfect for any custom design application.

This RGB flexible border tube is equipped with tri-chip LEDs composed of red, green and blue colors that can be controlled by a DMX controller to offer several different color shades and effects.

FEATURES

- RGB border tubing utilizing tri-chip SMD5050 LEDs as its light source
- Energy efficient LEDs consumes 3.7W/ft , saving up to 70% or more over traditional neon
- Indoor and outdoor rated
- Flexible PVC housing conforms to almost any angle, virtually unbreakable
- Dome surface, continuous glow with invisible light points, high brightness and an even mixture of color
- Continuous runs up to 65' when power is supplied at both ends
- Easy to install using either aluminum mounting clips or 3' extruded aluminum mounting channels
- Meets or exceeds UL2108 standards for low voltage lighting systems
- 3 year warranty

TECHNICAL SPECIFICATION

- 4 wire, color changing RGB, flexible border tubing
- Voltage: 24VDC
- Frequency: 60Hz
- IP rating: IP68
- Dimensions: 0.45" wide, 1.14" high
- Operating distance: 65' (when power is supplied at both ends)
- Beam angle: 160°

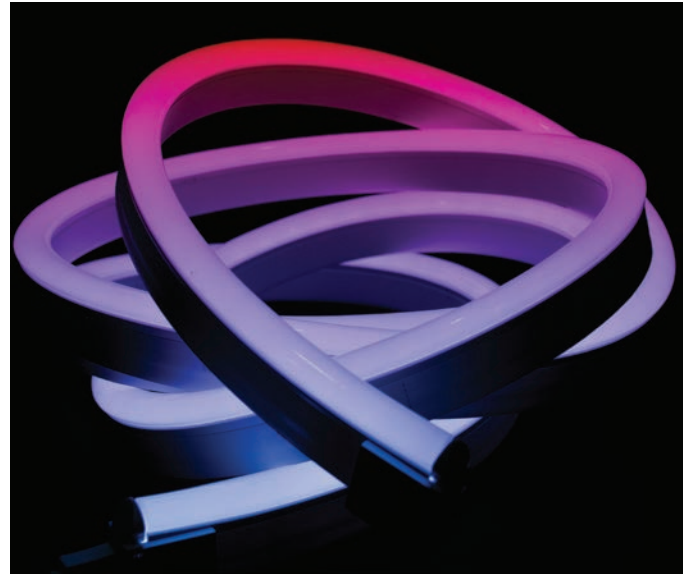
PRODUCT SPECIFICATIONS

- LED specs:
 - Rated life: 50,000 hours
 - SMD5050 tri-chip color LEDs
 - 18 LEDs per foot
 - 0.657" distance between LEDs
- Construction: Flexible, shatterproof, cool to touch, UV inhibited, PVC housing
- Roll length: 65'
- Mounting: 2" mounting clips (FBT-RGB-MC) or mounting channels available in standard (FBT-RGB-LCH), or in a locking version (FBT-RGB-LCH-L)
- Control: Can be controlled via a DMX controller
- Operating temperature: 32°F - 113°F (0°C - 45°C)
- Storage temperature: -4°F - 113°F (-20°C - 45°C)
- 3 year warranty, does not apply to damages caused by improper installation, abuse, fire or acts of God

Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____

FBT RGB

RGB LED FLEXIBLE BORDER TUBE



For the complete line of specialtyLED® products, visit us online at barronltg.com.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

TECHNICAL INFORMATION

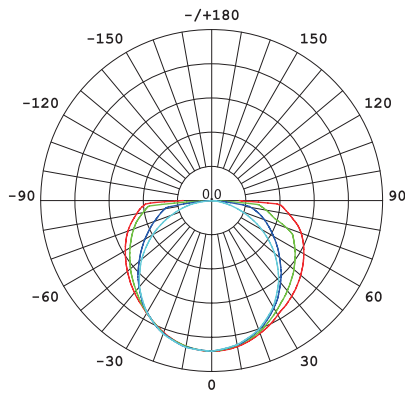
Color	Voltage	Rated Power W/ft	MIN cutting increment	Max Run*
RGB Color Changing	24VDC	3.7	4"	65'

* When unit has power supplied to both ends

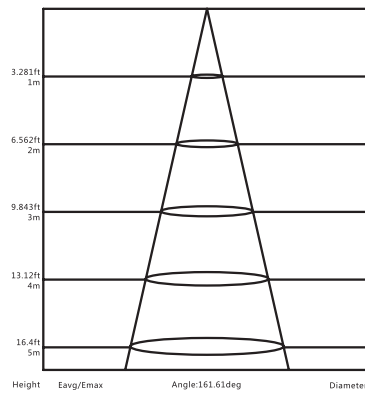
RGB ILLUMINATION INFORMATION

Color	Wavelength nm	Lumens lm/ft
Red	620	7
Green	520	27
Blue	460	5
White (All Colors Combined)	n/a	40

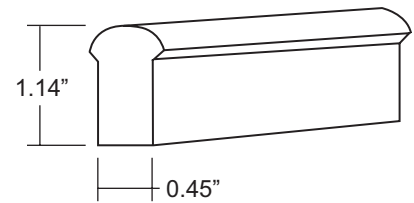
CANDLE POWER DISTRIBUTION



ILLUMINANCE CHARACTERISTICS



DIMENSIONS



ORDERING INFORMATION

Example: FBT-RGB-65-24V

Series	Length	Voltage ²
FBT-RGB	65 = 65 Feet	24V = 24 Volt DC
	XX ¹ = Custom Length	

Notes

¹ Custom lengths ordered specific to product cutting increments

² Requires transformer, ordered separately

24VDC NON-DIMMING TRANSFORMER ORDERING INFORMATION (ORDER AS SEPARATE LINE ITEM)

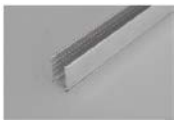












Example: XFMR-24-60

Part Number	Description	Dimensions (AxBxC)
XFMR-24-20	24 Volt, 20 Watt, Class 2 Power Supply	4.65" x 1.37" x 1.0"
XFMR-24-35	24 Volt, 35 Watt, Class 2 Power Supply	5.8" x 1.57" x 1.18"
XFMR-24-60	24 Volt, 60 Watt, Class 2 Power Supply	6.39" x 1.67" x 1.25"
XFMR-24-150	24 Volt, 150 Watt, Class 2 Power Supply	8.74" x 2.67" x 1.52"



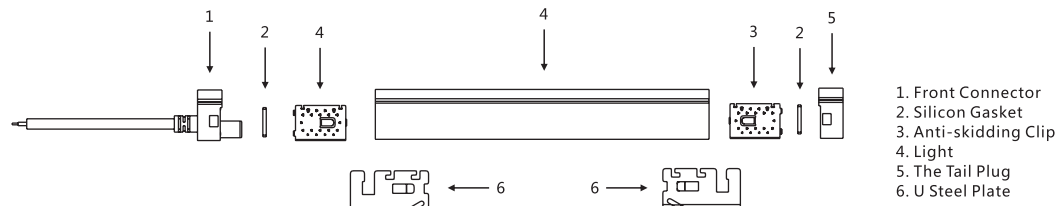
Note: All transformers are to be installed per NEC requirements. Wire leads on the 24 volt product are 18 gauge. Transformer is to be mounted within 10 feet of product. If transformer is mounted more than 10 feet from product, voltage drop and maximum operating distances should be taken into account when making transformer selection.

ACCESSORIES (ORDER AS SEPARATE LINE ITEM)

Part Number	Description	Part Number	Description
FBT-RGB-LCH	 Linear Channel (3.2' L x 13/16" H x 1 1/16" W)	FBT-RGB-SP	 Seamless splicing/middle connector. (Ideally used with the gripper tool)
FBT-RGB-LCH-L	 Locking Linear Channel	FBT24V-GR	 Gripper tool allows a seamless and weather tight connection when using the middle connector
FBT-RGB-MC	 2" Mounting Clip	RFX-RGB-DMX-CV-DECODER	 Indoor 5050 RGB DMX Decoder with RJ45 input, output 12-24V (needs DMX board, not included) INDOOR USE ONLY
FBT-RGB-LC-RIGHT-24V	 Line Cord connector assembly right power feed	RFX-4B-3CH-RGB	 DMX controller for sample purposes INDOOR USE ONLY
FBT-RGB-LC-LEFT-24V	 Line Cord connector assembly left power feed	RFX-RGB-SRC-174	 DMX controller, 192 channels INDOOR USE ONLY
FBT-RGB-EC	 End Cap connector assembly	NICOLAUDIE-STICK-KE-1	 DMX controller, 1024 channels. INDOOR use only (requires the use of the NICOLAUDIE-POWER4M power adapter)
FBT-RGB-SJ	 1.5" Jumper Cable from one end of the flex to another	NICOLAUDIE-POWER4M	 6VDC, 0.65A power adapter for NICOLAUDIE-STICK-KE-1

TYPICAL ACCESSORIES FOR 24V INSTALLATION

- FBT-RGB Flexible Border Tube (FBT-RGB-26-24V)
- Linear Channel (FBT-RGB-LCH) AND/OR Mounting Clips (FBT-RGB-MC)
- End cap connector assembly (FBT-RGB-EC)
- Line Cord (FBT-RGB-LC-RIGHT-24V)
- Transformer (XFMR-24-150)
- Decoder (RFX-RGB-DMX-CV-DECODER)
- DMX controller (NICOLAUDIE-STICK-KE-1)
- Power adapter for DMX controller (NICOLAUDIE-POWER4M)



MF-LC includes part 1, 2, 4 and 6
MF-EC includes part 2, 3, 5 and 6

