



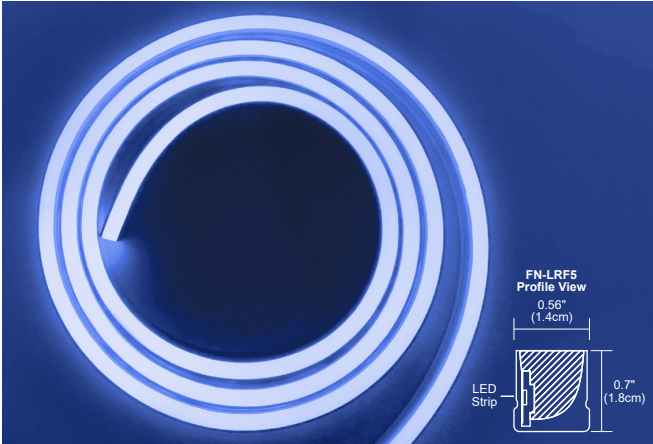
FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

OUTDOOR / INDOOR RGB, RGB+WHITE 5W | 6W



ASSEMBLED IN AMERICA

REV 04.26.21



DESCRIPTION

LRF5 Flexible Neon Bends Left or Right with a 0.5" wide Flat lens. Offering superior color quality and performance while creating uniform illumination without visible dots. Can be flush or surface mounted. RGB (Red, Green, and Blue), RGB+W (Red, Green, Blue, plus White) Fine-tune color and brightness independently using our touch controllers. The **(W)** is an IP65 rated wet location fixture featuring water tight barrel connections. The **(S)** Seamless (for continuous, seamless runs), is rated for Indoor Damp Locations **ONLY** and uses class 2 bare wire connectors. Fixture includes a 5-year pro-rated warranty. Patent pending.

SPECIFICATIONS

Flat top view 0.5" wide 0.75" high

INPUT	5" wire leads, Remote 24VDC Power Supply (sold separately)
POWER CONSUMPTION	5 Watts per foot, 6 Watts per foot
COMPLIANCE	Class 2 Wet Listed with water-tight Barrel Connectors, Title 24, IP65, ETL/UL, RoHS
POWER SUPPLY	Color Changing (DMX) 120/277VAC-24VDC, Sold Separately
ORDERING INCREMENTS	2.4" or 3"
MAX LENGTH	20ft at 5 watts, 15ft at 6 watts
MOUNTING	Clips included every 12"
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 years

CONTROLLER FOR RGB & RGB+W (SOLD SEPARATELY)

CDMX1-RGBW - Single zone DMX touch controller

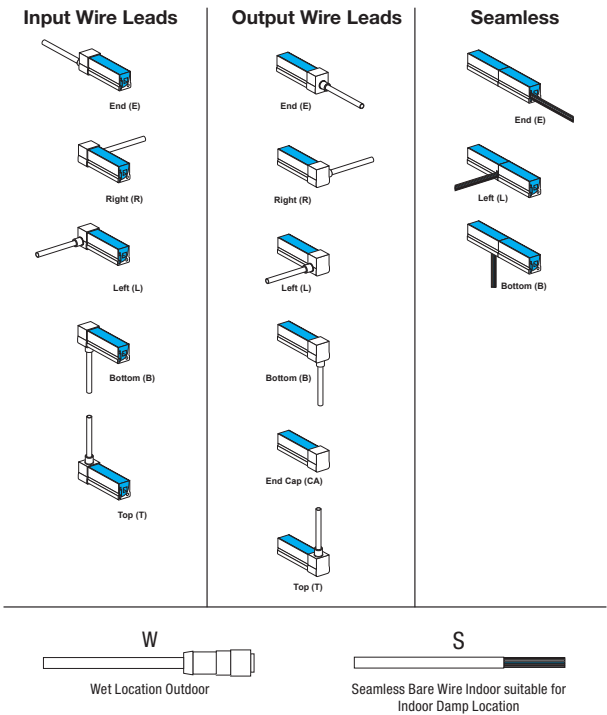
CTP - Multiple zone DMX touch controller

POWER SUPPLIES WITH DMX DRIVER (SOLD SEPARATELY)

Refer to pages 6-8

APPLICATIONS

Designed for Indoor **(S)** and Outdoor **(W)** wet locations. Ideal applications in Coves, Toe-Kicks, Pathways, Steps, Music Venues, Media rooms and Accent Lighting.



System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
FN Flex Neon 24V	LRF5 Left or Right side bend Top View Flat 0.5" x 0.7"	5W 4.4 watts per foot 6W 6.3 watts per foot	6-240 (20ft max), 2.4" increments 6-180 (15ft max), 3" increments	RGB Red, Green and Blue (5 Watt Only) RGBW Red, Green, Blue and White (6 Watt Only)	T* Top Power Input Wire E* End Power Input Wire L Left Power Input Wire R* Right Power Input Wire B Bottom Power Input Wire	T* Top Wire Lead Out E End Wire Lead Out L Left Wire Lead Out R* Right Wire Lead Out B Bottom Wire Lead Out CA Cap at end, no feed through	S Seamless Indoor / Damp location bare wire leads W Outdoor wet location Barrel Connector cable leads

*Not available for Seamless indoor

<div>sixteen5hundred</div>	<div>Project 21-12877-3 Date 6/25/2021</div> <div>RGB/W Saturated Color</div> <div>Submitted By</div> <div>16500, INC</div>	<div>Catalog Number</div> <div>FN LRF5 6W 12" RGBW B B S</div> <div>Notes</div>	<div>Type</div>
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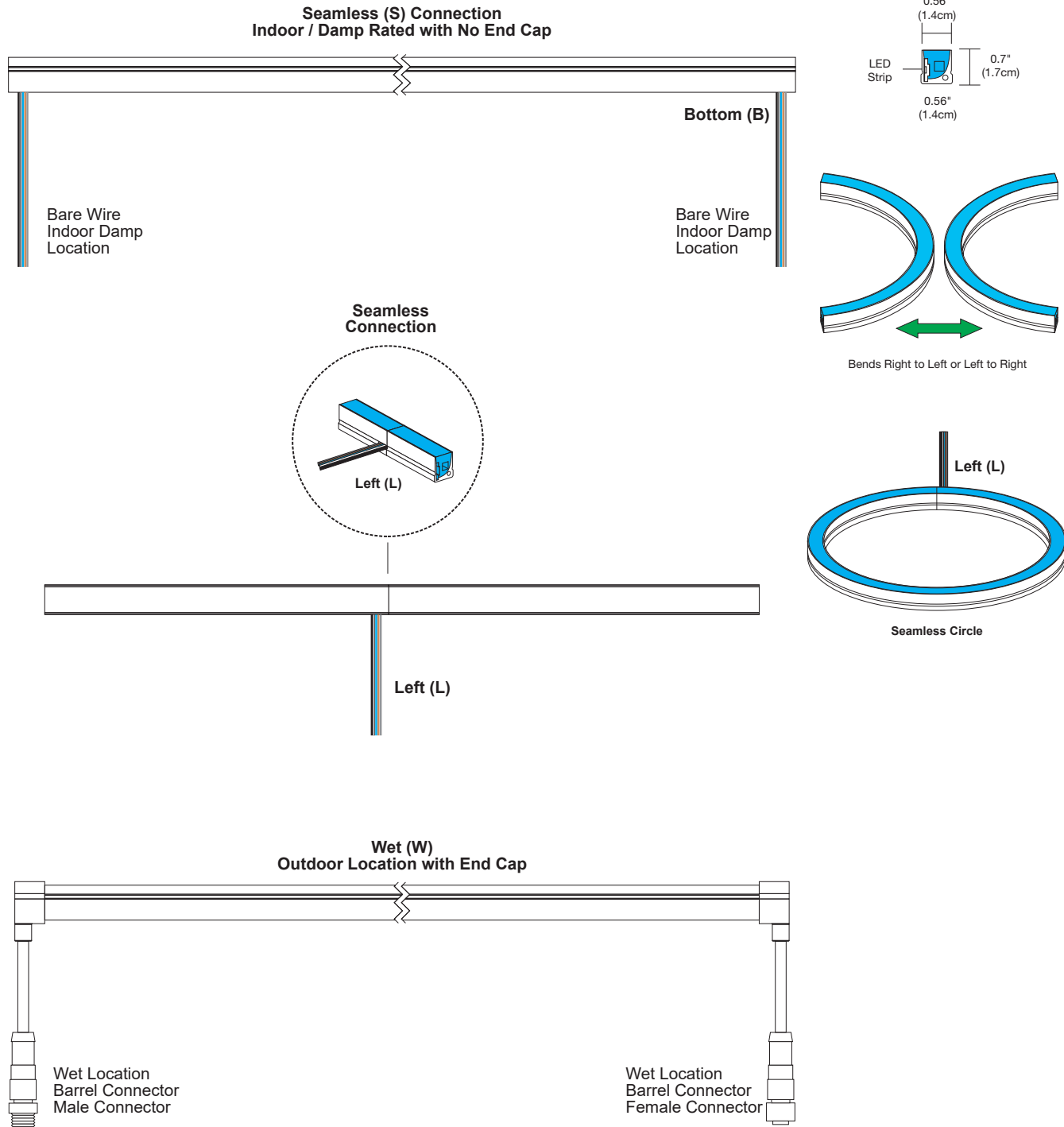
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Drawings: Dimensions for the Flex neon LRF5





FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS
OUTDOOR / INDOOR RGB, RGB+WHITE 5W | 6W



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LENGTH CHART Actual lengths for Flex Neon LRF5

LENGTH CHART - RGB													
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.15	72	72.75	142	142.35	212	211.95	281	281.55	348	348.75	416	415.95
5	5.55	75	75.15	144	144.75	214	214.35	284	283.95	351	351.15	418	418.35
8	7.95	77	77.55	147	147.15	216	216.75	286	286.35	353	353.55	420	420.75
10	10.35	80	79.95	149	149.55	219	219.15	288	288.75	356	355.95	423	423.15
12	12.75	82	82.35	152	151.95	221	221.55	291	291.15	358	358.35	425	425.55
15	15.15	84	84.75	154	154.35	224	223.95	293	293.55	360	360.75	428	427.95
17	17.55	87	87.15	156	156.75	226	226.35	296	295.95	363	363.15	430	430.35
20	19.95	89	89.55	159	159.15	228	228.75	298	298.35	365	365.55	432	432.75
22	22.35	92	91.95	161	161.55	231	231.15	300	300.75	368	367.95	435	435.15
24	24.75	94	94.35	164	163.95	233	233.55	303	303.15	370	370.35	437	437.55
27	27.15	96	96.75	166	166.35	236	235.95	305	305.55	372	372.75	440	439.95
29	29.55	99	99.15	168	168.75	238	238.35	308	307.95	375	375.15	442	442.35
32	31.95	101	101.55	171	171.15	240	240.75	310	310.35	377	377.55	444	444.75
34	34.35	104	103.95	173	173.55	243	243.15	312	312.75	380	379.95	447	447.15
36	36.75	106	106.35	176	175.95	245	245.55	315	315.15	382	382.35	449	449.55
39	39.15	108	108.75	178	178.35	248	247.95	317	317.55	384	384.75	452	451.95
41	41.55	111	111.15	180	180.75	250	250.35	320	319.95	387	387.15	454	454.35
44	43.95	113	113.55	183	183.15	252	252.75	322	322.35	389	389.55	456	456.75
46	46.35	116	115.95	185	185.55	255	255.15	324	324.75	392	391.95	459	459.15
48	48.75	118	118.35	188	187.95	257	257.55	327	327.15	394	394.35	461	461.55
51	51.15	120	120.75	190	190.35	260	259.95	329	329.55	396	396.75	464	463.95
53	53.55	123	123.15	192	192.75	262	262.35	332	331.95	399	399.15	466	466.35
56	55.95	125	125.55	195	195.15	264	264.75	334	334.35	401	401.55	468	468.75
58	58.35	128	127.95	197	197.55	267	267.15	336	336.75	404	403.95	471	471.15
60	60.75	130	130.35	200	199.95	269	269.55	339	339.15	406	406.35	473	473.55
63	63.15	132	132.75	202	202.35	272	271.95	341	341.55	408	408.75	476	475.95
65	65.55	135	135.15	204	204.75	274	274.35	344	343.95	411	411.15	478	478.35
68	67.95	137	137.55	207	207.15	276	276.75	346	346.35	413	413.55	480	480.75
70	70.35	140	139.95	209	209.55	279	279.15						

LENGTH CHART - RGBW													
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.75	75	75.75	138	138.75	207	207.75	276	276.75	345	345.75	414	414.75
6	6.75	78	78.75	141	141.75	210	210.75	279	279.75	348	348.75	417	417.75
9	9.75	81	81.75	144	144.75	213	213.75	282	282.75	351	351.75	420	420.75
12	12.75	68	67.95	147	147.75	216	216.75	285	285.75	354	354.75	423	423.75
15	15.75	70	70.35	150	150.75	219	219.75	288	288.75	357	357.75	426	426.75
18	18.75	84	84.75	153	153.75	222	222.75	291	291.75	360	360.75	429	429.75
21	21.75	87	87.75	156	156.75	225	225.75	294	294.75	363	363.75	432	432.75
24	24.75	90	90.75	159	159.75	228	228.75	297	297.75	366	366.75	435	435.75
27	27.75	93	93.75	162	162.75	231	231.75	300	300.75	369	369.75	438	438.75
30	30.75	96	96.75	165	165.75	234	234.75	303	303.75	372	372.75	441	441.75
33	33.75	99	99.75	168	168.75	237	237.75	306	306.75	375	375.75	444	444.75
36	36.75	102	102.75	171	171.75	240	240.75	309	309.75	378	378.75	447	447.75
39	39.75	105	105.75	174	174.75	243	243.75	312	312.75	381	381.75	450	450.75
42	42.75	108	108.75	177	177.75	246	246.75	315	315.75	384	384.75	453	453.75
45	45.75	111	111.75	180	180.75	249	249.75	318	318.75	387	387.75	456	456.75
48	48.75	114	114.75	183	183.75	252	252.75	321	321.75	390	390.75	459	459.75
51	51.75	117	117.75	186	186.75	255	255.75	324	324.75	393	393.75	462	462.75
54	54.75	120	120.75	189	189.75	258	258.75	327	327.75	396	396.75	465	465.75
57	57.75	123	123.75	192	192.75	261	261.75	330	330.75	399	399.75	468	468.75
60	60.75	126	126.75	195	195.75	264	264.75	333	333.75	402	402.75	471	471.75
63	63.75	129	129.75	198	198.75	267	267.75	336	336.75	405	405.75	474	474.75
66	66.75	132	132.75	201	201.75	270	270.75	339	339.75	408	408.75	477	477.75
69	69.75	135	135.75	204	204.75	273	273.75	342	342.75	411	411.75	480	480.75
72	72.75												



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 OUTDOOR / INDOOR RGB, RGB+WHITE 5W | 6W

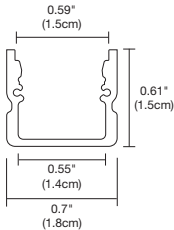


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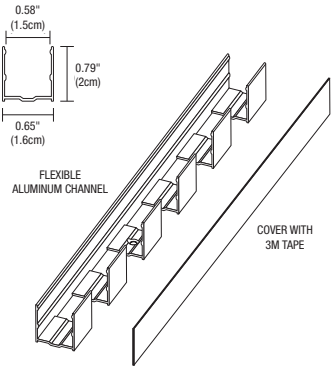
INTERIOR OR EXTERIOR CHANNEL
 Interior or exterior channel features an aluminum extrusion with mounting clips included every 2ft. Available in length up to 10ft long and may be cut at the job site.



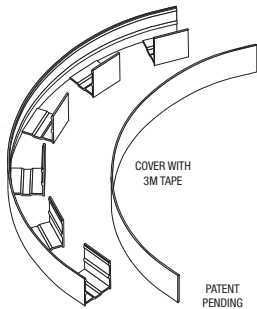
EXT.6 Light Channel



Product	Length	Finish
EXT.6	10FT	SA
EXT.6 Extrusion 0.6" Wide	2FT 2 Feet 4FT 4 Feet 5FT 5 Feet 8FT 8 Feet 10FT 10 Feet	SA Satin Aluminum



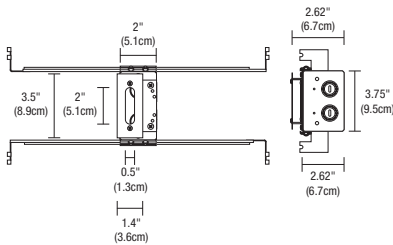
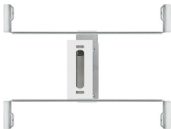
FLEXIBLE ALUMINUM CHANNEL



FLEXIBLE ALUMINUM CHANNEL
 Flexible aluminum channel is designed to work specifically with Flex Neon for practical and professional mounting. The channel can make large radius 90° turns and sweeping bends that follow the form of architectural details, soffits, signage and more - consider using this channel to guide your linear LED lighting design. Patent Pending.

Product	Length	Finish
FX-EXT.5	4FT	WH
FX-EXT.5 Flexible Extrusion 0.5" Wide	4FT 4 Feet	BK Black WH White

1" RECTANGLE CANOPY & J-BOX
 The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.



Canopy	Product
1RE	JBOX
1RE 1" Rectangle	JBOX Junction Box

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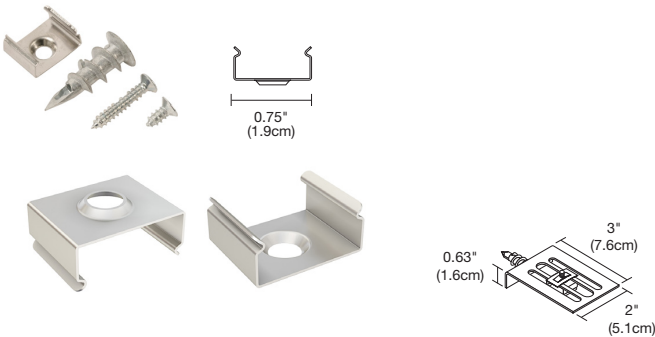


FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

OUTDOOR / INDOOR RGB, RGB+WHITE 5W | 6W



REV 04.26.21



MOUNTING CLIPS

NX.5-MCL mounting clips are provided with every 12" of Flex Neon and may be ordered separately as replacement parts.

System	Product
NX.5	MCL
N.5 Flex Neon .5" mounting clip	MCL Mounting Clip

FLEX NEON TIE STRAP

Use for mounting to poles for extra support, every 6"-12" (30 per package).



Product	Type
SS	ST
SS LED Flex Neon	ST Tie Strap

DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

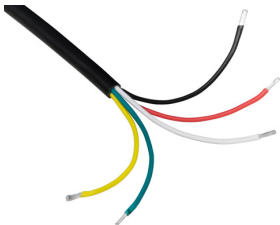
Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



Product	Gauge	Cable
DB	12G	2C
DB Direct Burial	12G 12 Gauge	2C 2 Conductor

WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



Product	Gauge	Cable
OC	14G	5C
OC Outdoor Cable	14G 14 Gauge	5C 5 Conductor

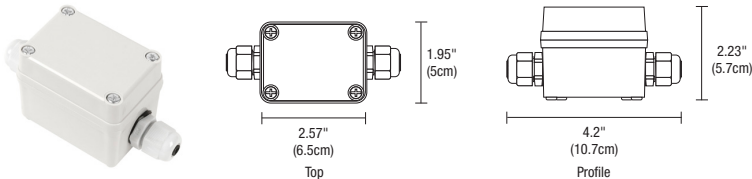


FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS
 OUTDOOR / INDOOR RGB, RGB+WHITE 5W | 6W



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WET LOCATION JUNCTION BOX
 Wet-rated low voltage Splice Box with connectors.

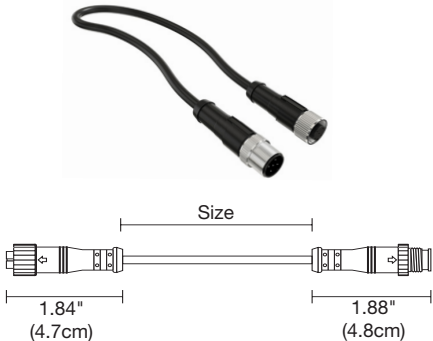


Product	Type	Option
2RE	JBOX	W
2RE 2" Rectangle	JBOX Junction Box	W Wet Location




RGB OR RGBW WET LOCATION JUNCTION BOX WITH 6" POWER CABLE
 This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

Product	Canopy	Product	Size	Type	Option
SS	2RE	JBOX	6IN	RGBW	W
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Four Wire Connection	RGB RGBW	W Wet Location



RGB OR RGBW POWER CABLE CONNECTOR WET LOCATION
 The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Type	Option
SS	CFX	12IN	RGBW	W
SS Soft Strip and Flex Neon	CFX Flexible 4 Wire Connector	12IN 12" 96IN 96"	RGBW Red, Green, Blue and White	W Wet Location

	Project 21-12877-3 Date 6/25/2021 RGB/W Saturated Color Submitted By 16500, INC	Catalog Number FN LRF5 6W 12" RGBW B B S Notes	Type
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RGB/RGBW WET LOCATION POWER SUPPLIES & CONTROLS
 WITH DMX FOR CIRRUS, FLEX NEON AND SOFT STRIP



REV 04.26.21



PSB-96W-24VDC-RGB-W

DIMENSIONS
PSB-96W-24VDC-RGBW-W
 Length: 10"
 Width: 7.1"
 Height: 3.3"
 Weight: 1.6lbs



PSB-2X96W-24VDC-RGBW-W


DIMENSIONS
PSB-2X96W-24VDC-RGBW-W
 Length: 11.8"
 Width: 9.1"
 Height: 3.4"
 Weight: 2.26lbs

DESCRIPTION
 Our Surface Mount, exterior-rated LED Power Supply utilizes drivers for powering 24VDC constant voltage products. This product is the ideal Power Supply for all Color Changing, damp or wet LED lighting solutions. Our constant voltage LED Power Supplies for outdoor environments are designed to provide regulated voltage through the DMX driver to the LED module. Designed for outdoor RGB and RGB+W Cirrus Soft Strip and Flex Neon.

- Universal Input Voltage
- Ripple Free
- IP65 – For Both Indoor and Outdoor Use
- No Minimum Load Requirement
- Class 2, Class P
- Auto-Reset Protection & Over-Temperature

- CONTROLS**
- CDMX1-RGBW - Single zone DMX touch controller
 - CTP - Multiple zone DMX touch controller

POWER INPUT
 Universal Input voltage ranging from 120 to 277VAC

LABELS
 Assembled in America, Class P, Class 2, IP65, 120-277V, Dimmable, RoHS Compliant, 24VD 

Product	Wattage	Voltage	Type	Option
PSB	96W	24VDC	RGBW	W
PSB Power Supply	96W 96 Watts 2X96W 2x96 Watts	24VDC 24 Volts	RGBW Red, Green, Blue and White	W Wet Location

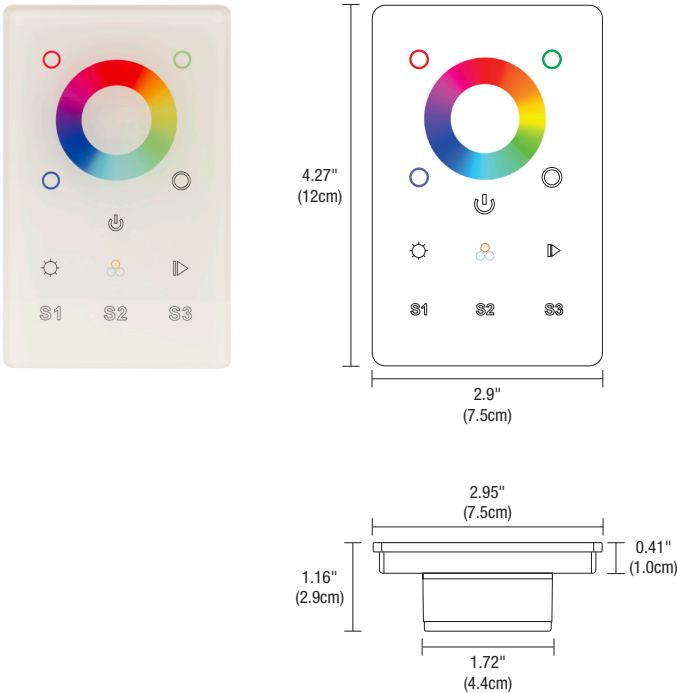


RGB/RGBW WET LOCATION POWER SUPPLIES & CONTROLS WITH DMX FOR CIRRUS, FLEX NEON AND SOFT STRIP



REV 04.26.21

RECOMMENDED CONTROLLERS



DESCRIPTION

Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

APPLICATIONS

Indoor

INSTALLATION

Fits in a single gang 2.5" deep junction box, not to be used with a multi gang box

POWER INPUT

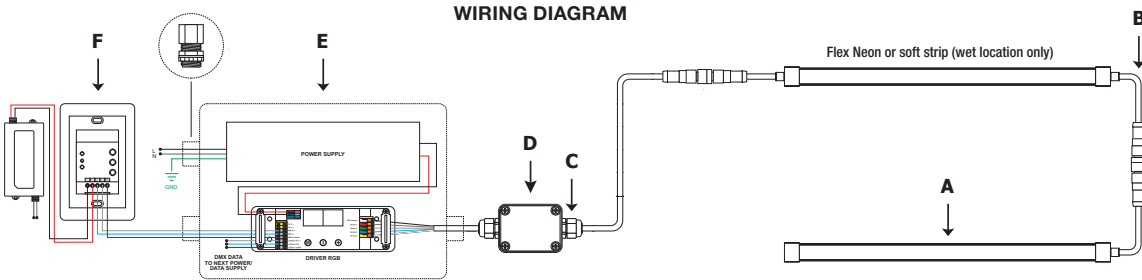
120-277VAC

OUTPUT SIGNAL

USITT DMX 512 (1990)

Product	Type	Finish
CDMX1	RGBW	WH
CDMX1 DMX 1 Zone Touch Controller	RGBW Red, Green, Blue and White	WH White

REQUIRED COMPONENTS SOLD SEPARATELY



A. OUTDOOR 24VDC FIXTURE OR FLEX NEON

Wet location LED Flex Neon or soft strip. Please refer to fixture ordering code for incremental lengths, Flex Neon and soft strip are not field cuttable or submersible.

B. RGB & RGBW POWER CABLE CONNECTOR

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections.

C. POWER CONNECTOR

Sold Separately for Flex Neon and wet location soft strip.

*Included with Wet Location LED Soft Strips - comes connected to each end of the LED Soft Strip sealed in water-resistant silicone.

D. OUTDOOR CONNECTION BOX

Wet-rated low voltage Splice Box with connectors.

E. OUTDOOR RATED POWER SUPPLY WITH DMX DRIVER

Outdoor-rated Power Supplies are required for use with Outdoor LED Soft Strip and fixtures.

F. DMX CONTROLLER

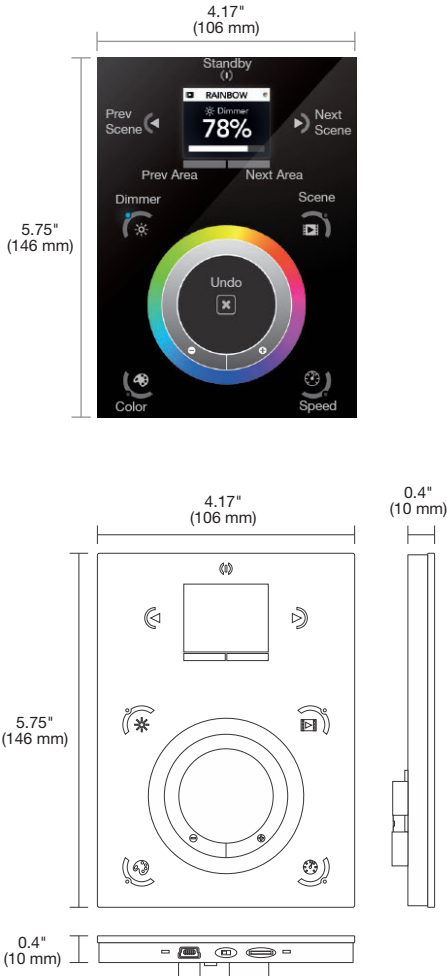
Indoor Only. Sold Separately. See page 2.



RGB/RGBW WET LOCATION POWER SUPPLIES & CONTROLS WITH DMX FOR CIRRUS, FLEX NEON AND SOFT STRIP



REV 04.26.21



DESCRIPTION:
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 10 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

FEATURES AND BENEFITS:

- Sleek glass design which sits 11mm from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control
- RS232, Dry Contact Ports and an Infra Red input port
- Clock and calendar with Sunrise/Sunset triggering
- Network communication. Control lighting remotely
- Catalog of designs including black and white glass
- OEM customization of the color palette and logo
- Windows/Mac software to set colors/effects
- iPhone/iPad/Android remote and programming apps

POWER ADAPTER:
9VDC 0.65A (included)

POWER INPUT:
7VDC 0.6A

OUTPUT SIGNAL:
DMX512 1,024 channels total

INPUT SIGNAL:
Universal IR receiver (Sold Separately), RS232, Contact Closure, Live Computer Link, DMX512, WiFi

CONNECTIONS:
USB, Ethernet, RS232, Clock, 8 dry contact ports, open drain output

MEMORY:
microSD (32GB Max)

COMPUTER AND MOBILE DEVICE REQUIREMENTS:
IPHONE/IPAD/ANDROID:
The controller may be used with any of the following apps: DMX Lightpad 3, Easy Remote and Arcolis may be downloaded from App Store or Google Play.

ESA PRO SOFTWARE (WINDOWS ONLY, TIMELINE AND MULTI-ZONE):
Windows ME, XP, Vista, 7 or 8 (32 bits and US 2.0, computer connection required for initial setup only.)

ESA2 SOFTWARE (WINDOWS/MAC, SINGLE ZONE):
Windows ME, XP, Vista, 7 or 8
Mac OS X 10.7 (Lion), 10.8 (Mountain lion), 10.9 (Mavericks), 10.10 (Yosemite)

APPLICATIONS:
Indoor

Product	Finish
CTP	BK
CTP Color Touch Screen Controller with Power Adapter	BK Black WH White

WIRING DIAGRAM FOR OUTDOOR RGB/RGBW FLEX NEON, SOFT STRIP, AND SOFT STRIP FIXTURES

