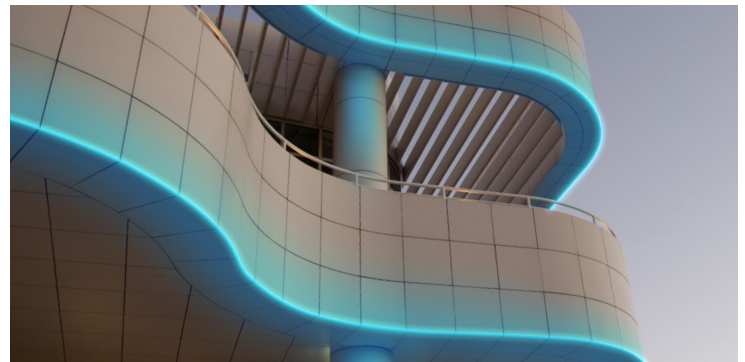


FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 08.04.23



DESCRIPTION

UDF7 Flex Neon Bends UP and Down using a 0.7" wide Flat lens that can be surface or flush-mounted. Flex Neon offers superior color quality and performance while creating uniform illumination without pixelation. RGB (Red, Green, and Blue), RGB+W (Red, Green, Blue, plus White) Fine-tune the color and brightness independently using our CDMX1-RGBW touch controller. The **(W)** is an IP67 rated wet location fixture featuring watertight 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

LUMEN PERFORMANCE	565lm/ft 7W @3000K
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, IP67. ETL/UL, RoHS
POWER SUPPLY	Color Changing (DMX) Power Supply 120/277VAC-24VDC, Sold Separately
ORDERING INCREMENTS	2.4" or 3"
MAX LENGTH	20' at 5 watts, 15' at 6 watts
BENDING	4" Minimum Radius
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

REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

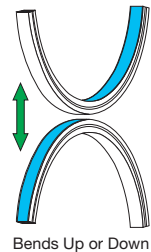
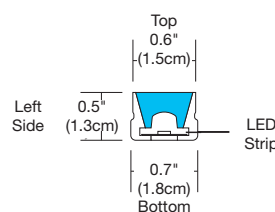
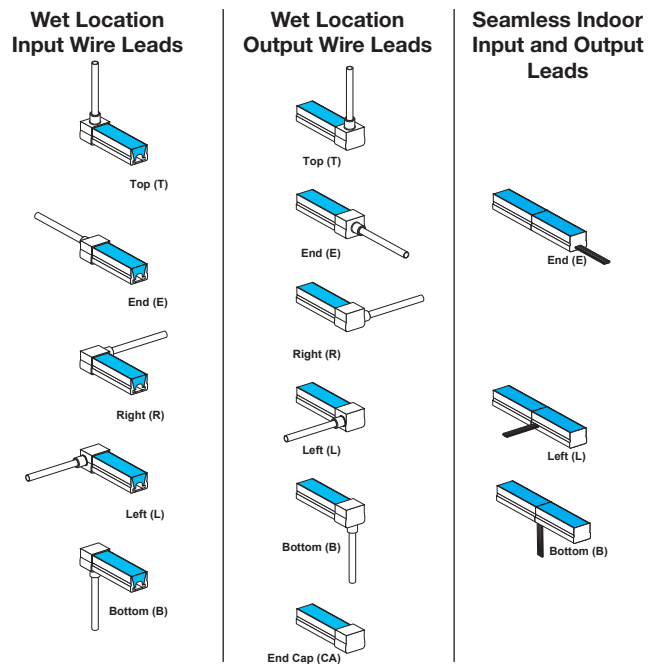
OUTDOOR/ WET LOCATION

- [DMX Dynamic Color Changing](#) & [Controllers](#)

INDOOR

- [DMX Dynamic Color Changing](#) & [Controllers](#)

*In-Wall Mounting and drop ceiling Kits available for select power supplies



System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
FN	UDF7	5W	120	RGB	E	L	W
FN Flex Neon 24V	UDF7 Up or Down Bend Top View Flat 0.7"x0.75"	5W 4.4 watts per foot 6W 6.3 watts per foot	6-240 (20' max) 2.4" increments 6-180 (15' max) 3" increments	RGB Red, Green and Blue (5 Watt Only) RGB20K Red, Green, Blue + White 2000K (6 Watt Only) RGB27K Red, Green, Blue + White 2700K Special Order RGB30K Red, Green, Blue + White 3000K Special Order RGB40K Red, Green, Blue + White 4000K Special Order	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 Bottom and Left Feed Only W Outdoor wet location Barrel Connector cable leads
					*Seamless indoor: E, L, B Only **Indoor Seamless: No output feed wire, No cap will be provided.		

PROJECT	FIXTURE TYPE	DATE
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FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE

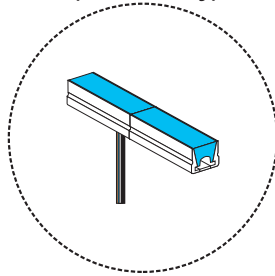
Drawings: Flex Neon UDF7

Seamless Connectors are ideal for indoor projects that have multiple segments of Flex Neon but need to look like a continuous run/fixture. Two (E) Endfeeds can not be seamless. Are assembled in the factory – fixtures ready to use.

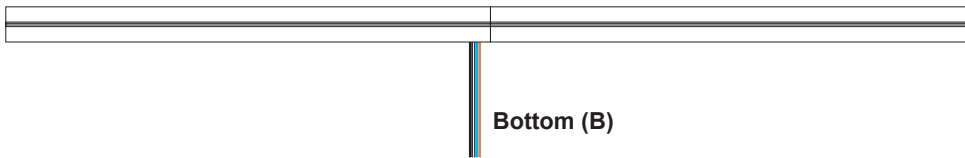
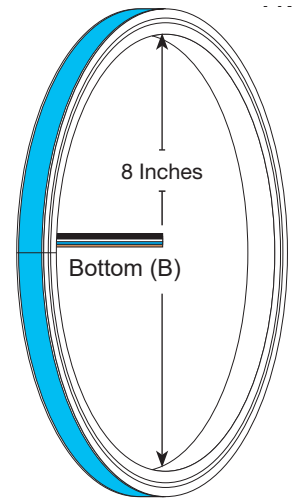
**Seamless (S) Connection
Indoor/Damp Rated with No End Cap**



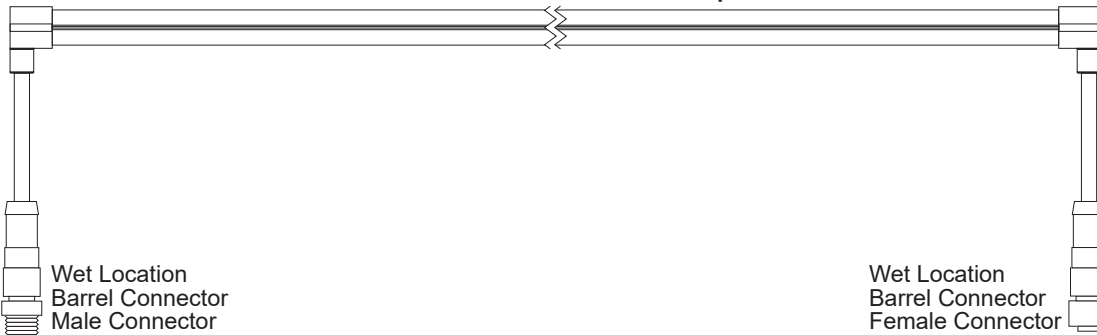
**Seamless Connection
(Indoor Only)**



Seamless Circle



**Wet (W)
Outdoor Location with End Cap**

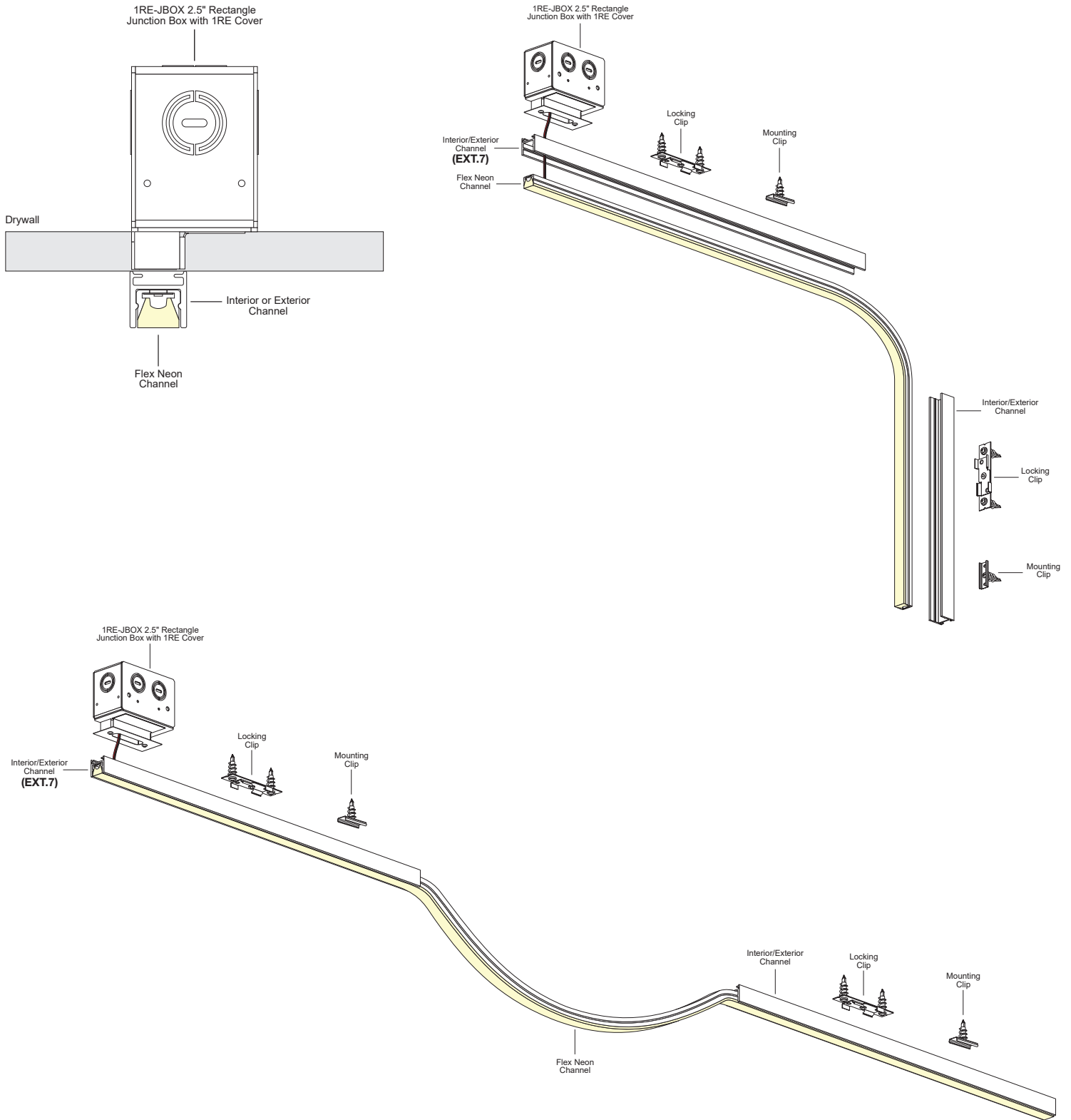


PROJECT		FIXTURE TYPE		DATE	
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FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE

Drawings: Exploded View for Flexible Aluminum Channel with 1RE J-box



PROJECT	FIXTURE TYPE	DATE



FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE



REV 08.04.23

LENGTH CHART Actual lengths for Flex Neon UDF7

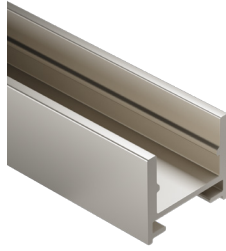
LENGTH CHART - RGB													
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length		
3	3.15	72	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		
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	84	83.75	147	147.75	216	216.75	285	285.75	354	354.75	423	423.75
15	15.75	87	86.75	150	150.75	219	219.75	288	288.75	357	357.75	426	426.75
18	18.75	90	89.75	153	153.75	222	222.75	291	291.75	360	360.75	429	429.75
21	21.75	93	92.75	156	156.75	225	225.75	294	294.75	363	363.75	432	432.75
24	24.75	96	95.75	159	159.75	228	228.75	297	297.75	366	366.75	435	435.75
27	27.75	99	98.75	162	162.75	231	231.75	300	300.75	369	369.75	438	438.75
30	30.75	102	101.75	165	165.75	234	234.75	303	303.75	372	372.75	441	441.75
33	33.75	105	104.75	168	168.75	237	237.75	306	306.75	375	375.75	444	444.75
36	36.75	108	107.75	171	171.75	240	240.75	309	309.75	378	378.75	447	447.75
39	39.75	111	110.75	174	174.75	243	243.75	312	312.75	381	381.75	450	450.75
42	42.75	114	113.75	177	177.75	246	246.75	315	315.75	384	384.75	453	453.75
45	45.75	117	116.75	180	180.75	249	249.75	318	318.75	387	387.75	456	456.75
48	48.75	120	119.75	183	183.75	252	252.75	321	321.75	390	390.75	459	459.75
51	51.75	123	122.75	186	186.75	255	255.75	324	324.75	393	393.75	462	462.75
54	54.75	126	125.75	189	189.75	258	258.75	327	327.75	396	396.75	465	465.75
57	57.75	129	128.75	192	192.75	261	261.75	330	330.75	399	399.75	468	468.75
60	60.75	132	131.75	195	195.75	264	264.75	333	333.75	402	402.75	471	471.75
63	63.75	135	133.75	198	198.75	267	267.75	336	336.75	405	405.75	474	474.75
66	66.75			201	201.75	270	270.75	339	339.75	408	408.75	477	477.75
69	69.75			204	204.75	273	273.75	342	342.75	411	411.75	480	480.75
72	72.75												

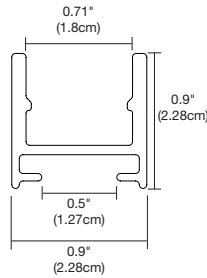
PROJECT		FIXTURE TYPE		DATE	
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FLEX NEON UDF7 ACCESSORIES AND J-BOXES

24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE



EXT.7 Light Channel



INTERIOR OR EXTERIOR CHANNEL

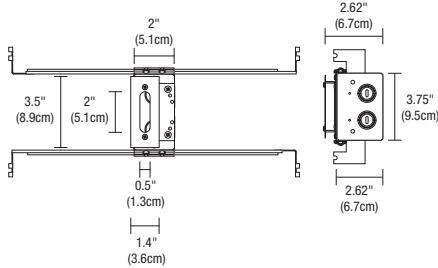
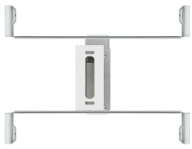
Interior or exterior channel features an aluminum extrusion with mounting clips included every 2ft. Available in length up to 10ft long and may be cut at the job site.

Product	Length	Finish
EXT.7	10FT	SA
EXT.7 Extrusion 0.7" Wide	4FT 4 Feet 5FT 5 Feet 8FT 8 Feet 10FT 10 Feet	SA Satin Aluminum 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.

*Only to be used with Seamless Indoor Bottom Lead-In and Out



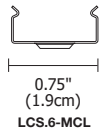
Canopy	Product
1RE	JBOX
1RE 1" Rectangle	JBOX Junction Box

MOUNTING CLIPS

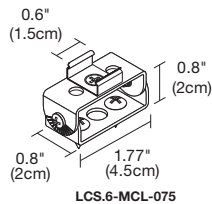
LCS.6 mounting clips are provided with every 12" of Flex Neon and may be ordered separately as replacement parts. The LCS.6-MCL-075 rotates Channel up to 75°. LCS.6-MCL-90 mounts Channel at a 90° angle.



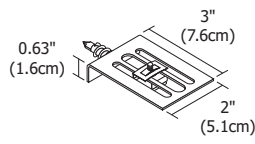
LCS.6-MCL



LCS.6-MCL-075



LCS.6-MCL-075



LCS.6-MCL-90

System	Product	Type
LCS.6	MCL	075
LCS.6 Flex Neon Left Right 0.6"	MCL Mounting Clip	Standard, Leave Blank 075 Adjust 0-75° 90 Mounts at 90°

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

PROJECT	FIXTURE TYPE	DATE
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FLEX NEON UDF7 ACCESSORIES AND J-BOXES

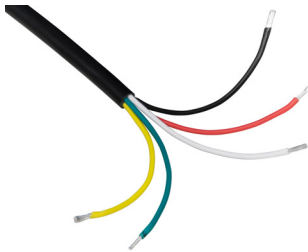
24VDC 5W | 6W INDOOR / OUTDOOR RGB, RGB+WHITE



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.

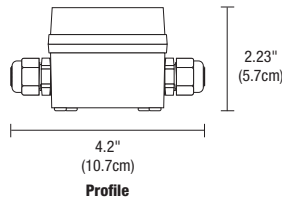
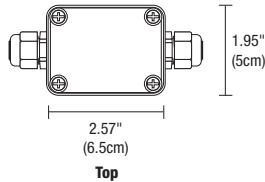
Product	Gauge	Cable
DB	12G	2C
<small>DB Direct Burial</small>	<small>12G 12 Gauge</small>	<small>2C 2 Conductor</small>



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
<small>OC Outdoor Cable</small>	<small>14G 14 Gauge</small>	<small>5C 5 Conductor</small>



WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.

Product	Type	Option
2RE	JBOX	W
<small>2RE 2" Rectangle</small>	<small>JBOX Junction Box</small>	<small>W Wet Location</small>



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.

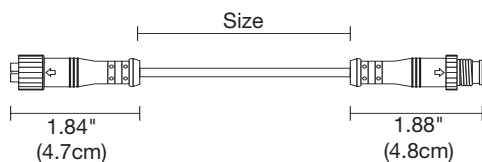
Product	Canopy	Product	Size	Type	Option
SS	2RE	JBOX	6IN	RGBW	W
<small>SS LED Soft Strip Flex Neon</small>	<small>2RE 2" Rectangle</small>	<small>JBOX Junction Box</small>	<small>6IN 6" Four Wire Connection</small>	<small>RGB RGB RGBW RGBW</small>	<small>W Wet Location</small>



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
<small>SS Soft Strip and Flex Neon</small>	<small>CFX Flexible 4 Wire Connector</small>	<small>12IN 12" 96IN 96"</small>	<small>RGBW Red, Green, Blue and White</small>	<small>W Wet Location</small>



PROJECT	FIXTURE TYPE	DATE