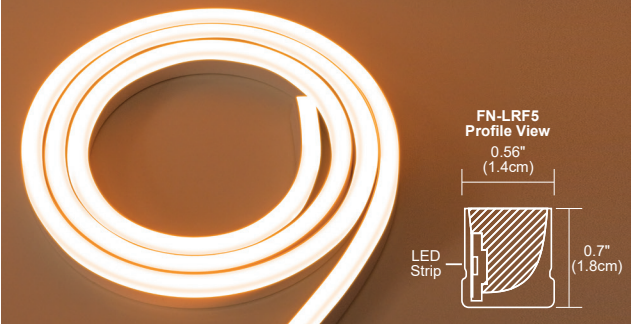


# FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

## 24VDC OUTDOOR / INDOOR, MONOCHROMATIC COLOR

ASSEMBLED IN AMERICA



REV 04.24.25

### DESCRIPTION

LRF5 Flexible Neon Bends Left or Right with a 0.5" wide Flat lens, offering superior color rendering while creating uniform illumination without visible dots. May be surface mounted or Flush mounted. Static Red, Amber, Blue, and Green options offered in 3 or 6 watts per foot. The **(W)** is an IP67 rated wet location fixture featuring watertight barrel connections. Seamless **(S)** (for seamless continuous runs), is rated for Indoor Damp Locations ONLY and uses Class 2 bare wire connectors. Patent pending. For custom quotes and layout assistance, send your drawings and ideas to our design team: [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### SPECIFICATIONS

DIMENSIONS	Height: 0.75" Width 0.6" (TOP) 0.7" (BOTTOM)
INPUT	24VDC with 5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	2.6 or 5 watts per foot
INCREMENTS	4"
MAX LENGTH	36' at 3 watts, 20' at 5 watts
BENDING	4" Minimum Radius
BEAM ANGLE	120°
BEAM TOLERANCE	+/- 30CCT
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring Indoor Applications, Outdoor Wet Location with Water Tight Barrel Connectors IP67 Rated, ETL listed, Red & Amber meet Turtle Compliance

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

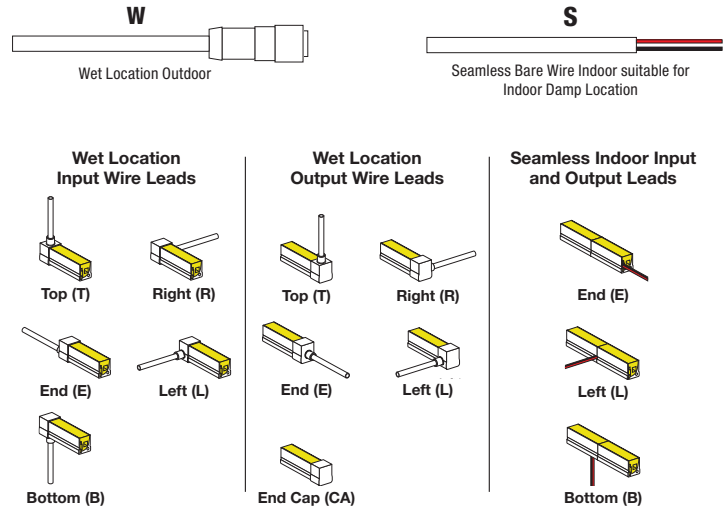
24VDC, Class 2 wiring

#### OUTDOOR/WET LOCATION

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

#### INDOOR

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)



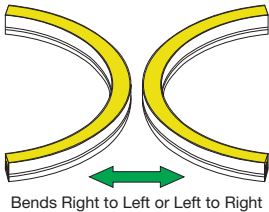
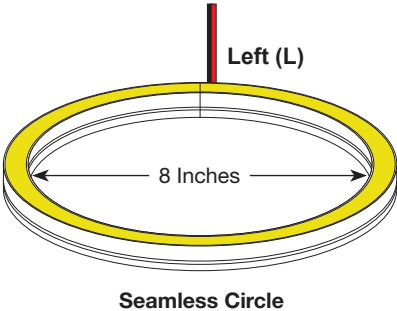
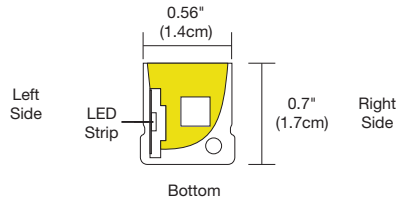
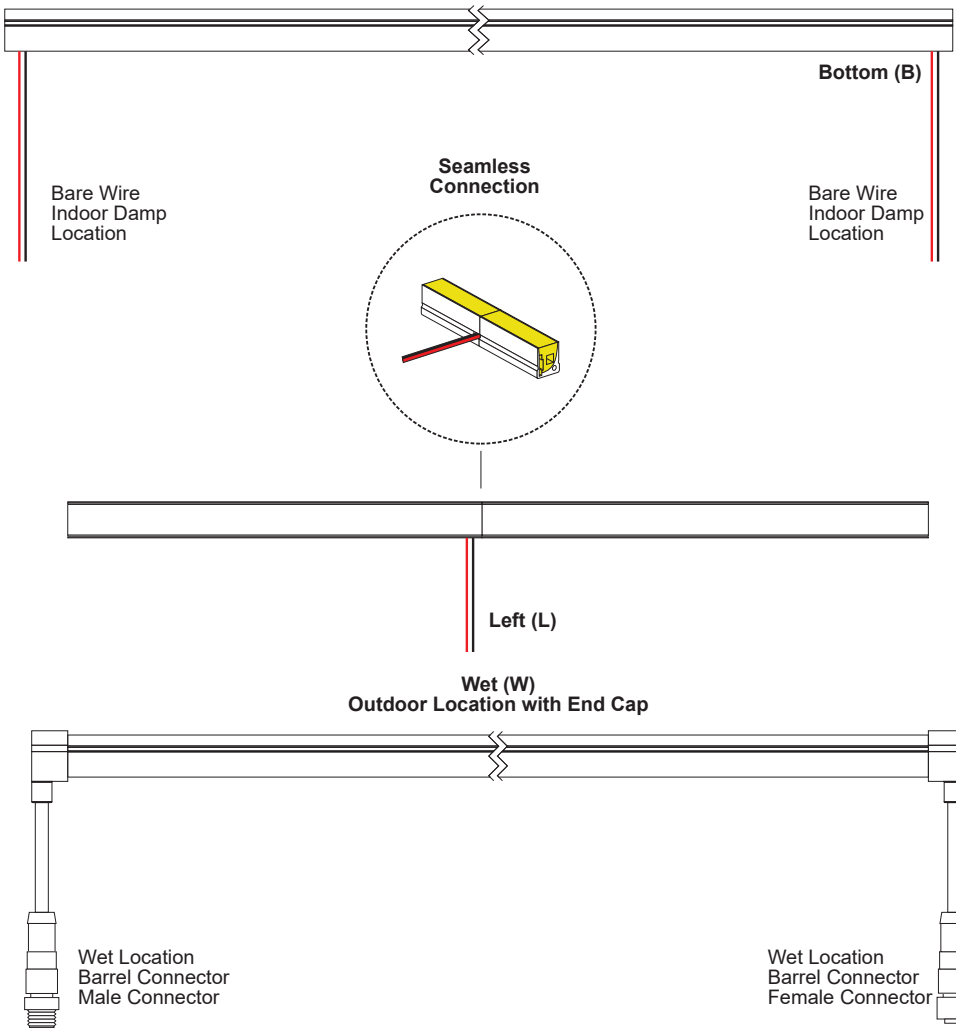
System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Inch Output Wire	Envi
<b>FN</b>	<b>LRF5</b>	<b>5W</b>	<b>120</b>	<b>AAA</b>	<b>E</b>	<b>L</b>	
FN Flex Neon 24V	LRF5 Left or Right side bend Top View Flat 0.5" x 0.7"	3W 2.4 watts per foot 5W 5 watts per foot	6-432 (36' max) 6-240 (20' max)	AAA Amber 603.5 nanometers, Turtle friendly BBB Blue GGG Green RRR Red 657 nanometers, Turtle friendly	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 location b Bottom & W Outdoor v Connector

\*Seamless indoor: E, L, B Only  
\*\*Indoor Seamless: No output feed wire. No cap will be provided.

# FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS 24VDC OUTDOOR / INDOOR, MONOCHROMATIC COLOR

## DRAWINGS & DIMENSIONS Dimensions for the Flex Neon LRF5

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

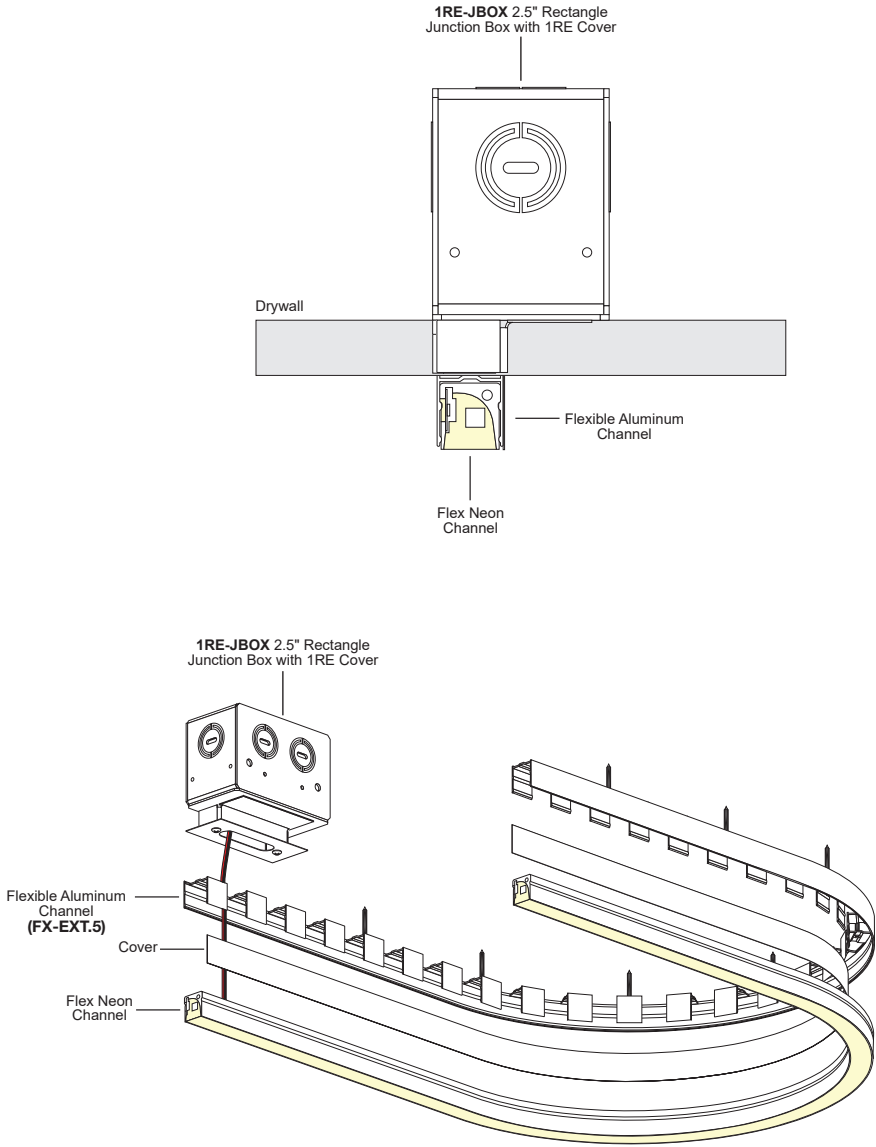


PROJECT		FIXTURE TYPE		DATE	
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# FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR, MONOCHROMATIC COLOR

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



PROJECT		FIXTURE TYPE		DATE	
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# FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

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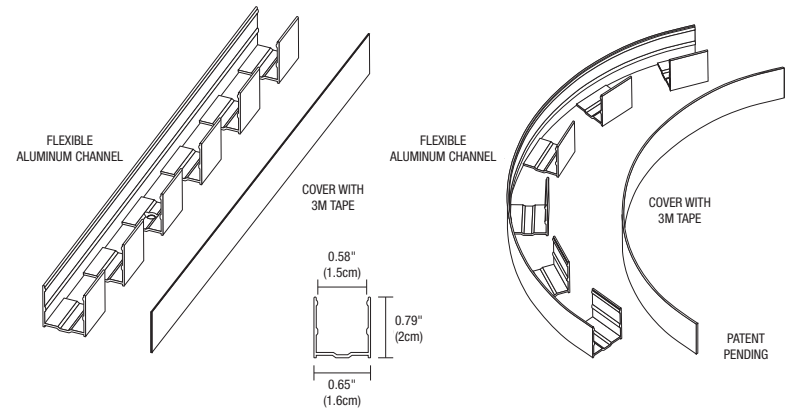
## LENGTH CHART Actual lengths for Flex Neon LRF5

LENGTH CHART							
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
8	7.95	128	127.95	248	247.95	368	367.95
12	12.75	132	132.75	252	252.75	372	372.75
20	19.95	140	139.95	260	259.95	380	379.95
24	24.75	144	144.75	264	264.75	384	384.75
32	31.95	152	151.95	272	271.95	392	391.95
36	36.75	156	156.75	276	276.75	396	396.75
44	43.95	164	163.95	284	283.95	404	403.95
48	48.75	168	168.75	288	288.75	408	408.75
56	55.95	176	175.95	296	295.95	416	415.95
60	60.75	180	180.75	300	300.75	420	420.75
68	67.95	188	187.95	308	307.95	428	427.95
72	72.75	192	192.75	312	312.75	432	432.75
80	79.95	200	199.95	320	319.95	440	439.95
84	84.75	204	204.75	324	324.75	444	444.75
92	91.95	212	211.95	332	331.95	452	451.95
96	96.75	216	216.75	336	336.75	456	456.75
104	103.95	224	223.95	344	343.95	464	463.95
108	108.75	228	228.75	348	348.75	468	468.75
116	115.95	236	235.95	356	355.95	476	475.95
120	120.75	240	240.75	360	360.75	480	480.75

PROJECT		FIXTURE TYPE		DATE	
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### 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.

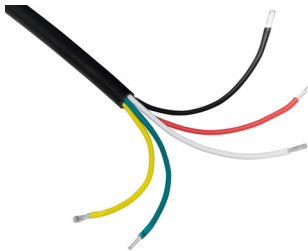
Product	Length	Finish
<b>FX-EXT.5</b>	<b>4FT</b>	<b>WH</b>
FX-EXT.5 Flexible Extrusion 0.5" Wide	4FT 4 Feet	BK Black WH White



### DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

Our Direct Burial, 2 Conductor Plus ground, 14 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. Not compatible with Tunable White.

Product	Gauge	Cable
<b>DB</b>	<b>14G</b>	<b>2C</b>
DB Direct Burial	14G 14 Gauge	2C 2 Conductor



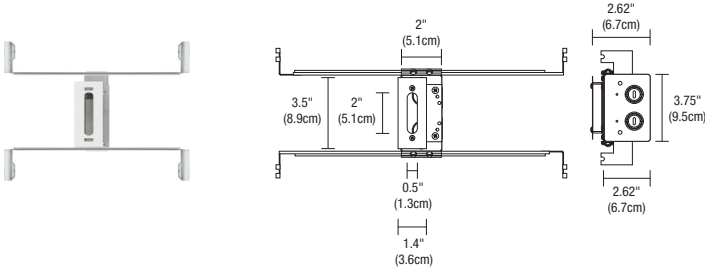
### WET AND DAMP LOCATION CABLE ORDER PER FOOT

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. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed. For use with Tunable White.

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

# FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

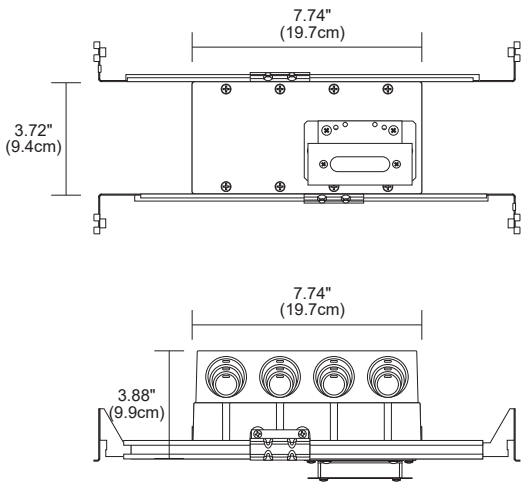
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## 1" RECTANGLE CANOPY & J-BOX\*

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

Product	Canopy	Product
<b>C</b>	<b>1RE</b>	<b>JBOX</b>
C Channel	1RE 1" Rectangle	JBOX Junction Box



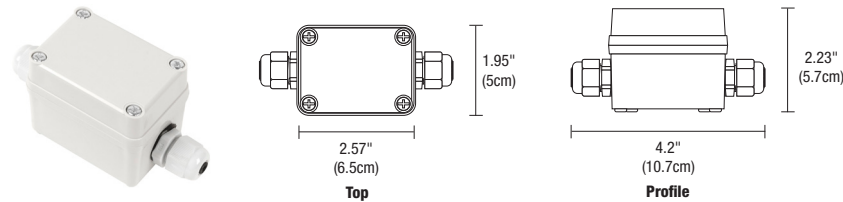
## 1" RECTANGLE CANOPY WITH 4 GANG JUNCTION BOX AND PURE SMART WIZ PRO CV BRIDGEBOX

The slim profile 1RE Canopy with 4 Gang Junction Box come with adjustable hanger bars and a Pure Smart WiZ Pro CV Bridgebox allowing wireless control of Flex Neon. Two Class 2, 14AWG stranded conductors from the Remote Power Supply up to 40 ft away are required.

System	Type	Wattage	Control	Color Temperature	System Code
<b>C</b>	<b>1RE4G</b>	<b>96W</b>	<b>WZ</b>	<b>DW</b>	<b>FN</b>
C Channel	1RE4G 1" Rectangle Canopy with 4 Gang Junction Box	96W 96 Watts	WZ WiZ Pro Connected CV Smart Bridgebox Included	DW Static White /Color	FN Flex Neon

## WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



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

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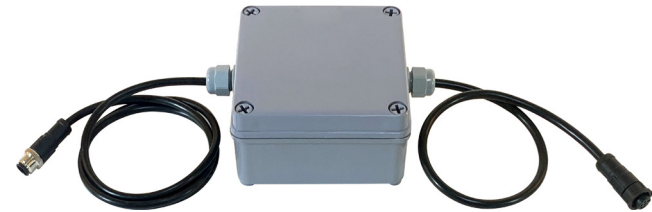
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## WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

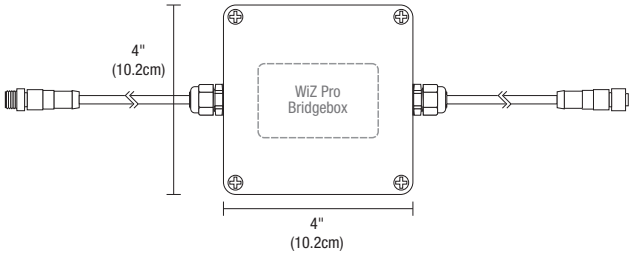
This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is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

Product	Canopy	Product	Size	Option
<b>SS</b>	<b>2RE</b>	<b>JBOX</b>	<b>6IN</b>	<b>W</b>
<b>SS</b> LED Soft Strip Flex Neon	<b>2RE</b> 2" Rectangle	<b>JBOX</b> Junction Box	<b>6IN</b> 6" Four Wire Connection <b>96IN</b> 96" Four Wire Connection	<b>W</b> Wet Location



## PURE SMART WET LOCATION JUNCTION BOX WITH 8FT POWER CABLE AND WIZ PRO UR BRIDGEBOX

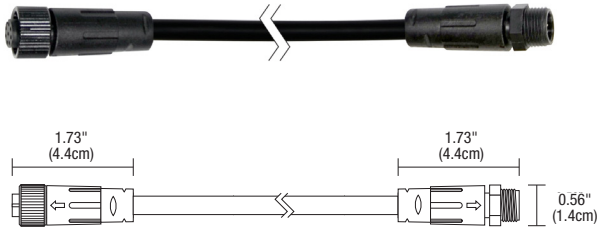
This watertight Junction Box is especially designed for lighting in wet and damp locations. The Junction Box comes standard with a 8ft of outdoor cable and both male and female barrel connectors providing easy, safe, and reliable connections for 24V low voltage luminaires. Included with the Junction Box is one WIZ Pro type Bridgebox allowing wireless control of Flex Neon. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.



Product	Type	Wattage	Controls	Color Temperature	Option	System
<b>BR</b>	<b>JBC</b>	<b>96W</b>	<b>WZ</b>	<b>DW</b>	<b>W</b>	<b>FN</b>
<b>BR</b> Bridgebox for LED Soft Strip and Flex Neon	<b>JBC</b> Outdoor Junction Box with Two Barrel Connectors	<b>96W</b> 96 Watts	<b>WZ</b> Wiz Connected Bridgebox Included	<b>DW</b> Static White /Color	<b>W</b> Wet Location	<b>FN</b> Flex Neon

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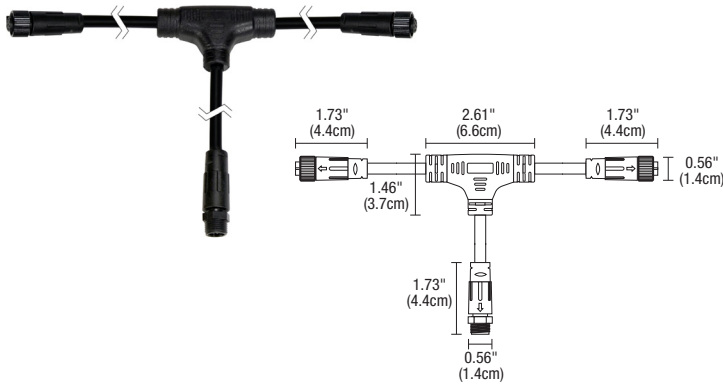
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## POWER CABLE CONNECTOR WET LOCATION

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.

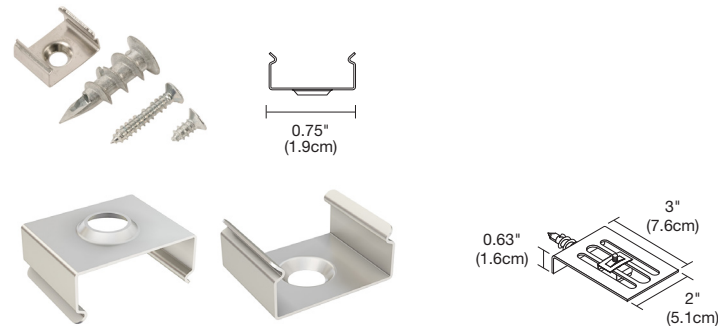
Product	Type	Size	Conductor	Option
<b>SS</b>	<b>CFX</b>	<b>16IN</b>	<b>2C</b>	<b>W</b>
<b>SS</b> Soft Strip and Flex Neon	<b>CFX</b> Flexible Connector	<b>16IN</b> 16" <b>96IN</b> 96"	<b>2C</b> 2 Conductor	<b>W</b> Wet Location



## WET LOCATION T-CONNECTOR

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

Product	Type	Size	Size	Option
<b>SS</b>	<b>CFX</b>	<b>4IN</b>	<b>2YC</b>	<b>W</b>
<b>SS</b> Soft Strip and Flex Neon	<b>CFX</b> Flexible Connector	<b>4IN</b> 4"	<b>2YC</b> Y-Shape 2 Conductor	<b>W</b> Wet Location



## 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
<b>NX.5</b>	<b>MCL</b>
NX.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).



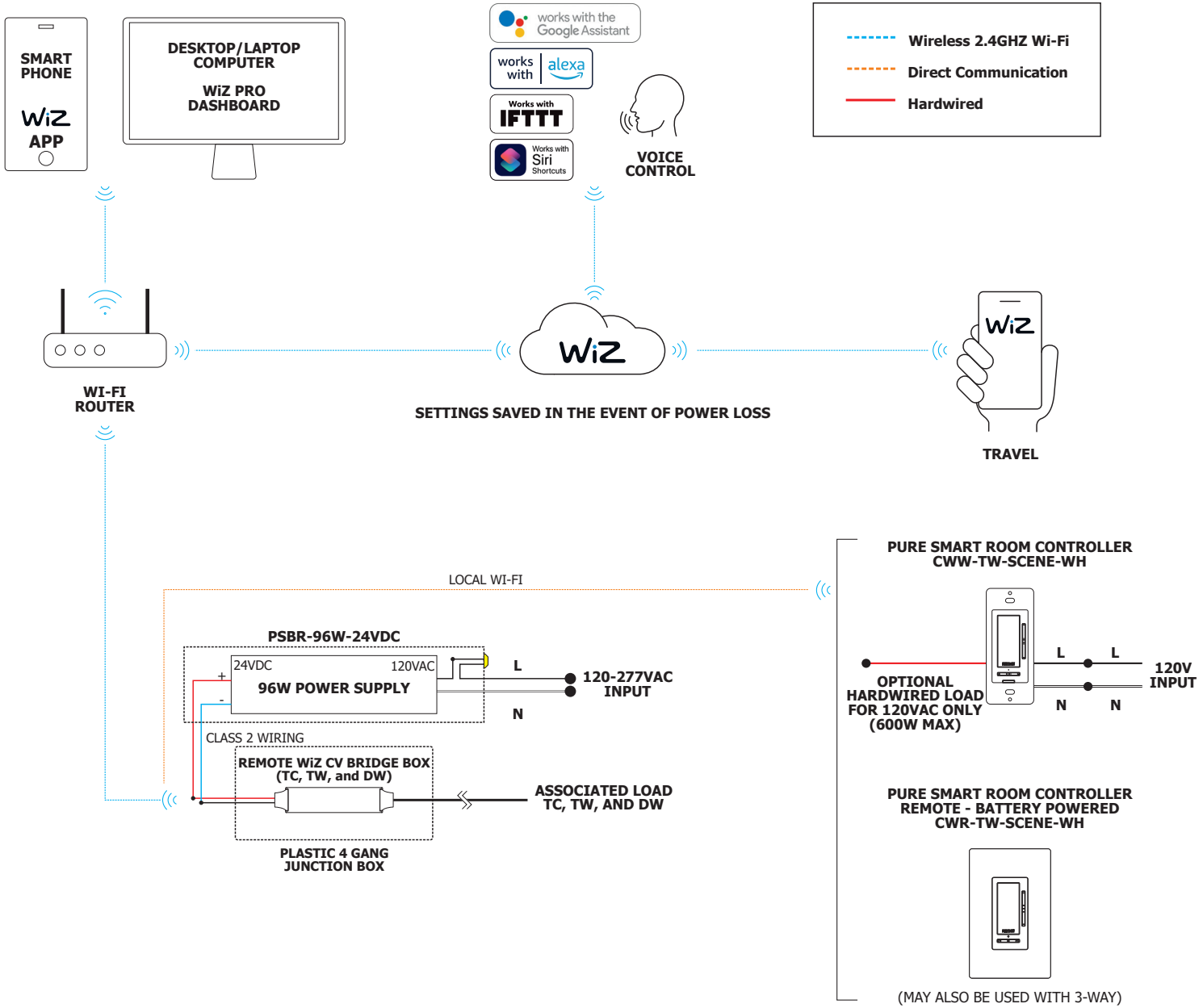
Product	Type
<b>SS</b>	<b>ST</b>
SS LED Flex Neon	ST Tie Strap



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## INDOOR WIRING DIAGRAMS



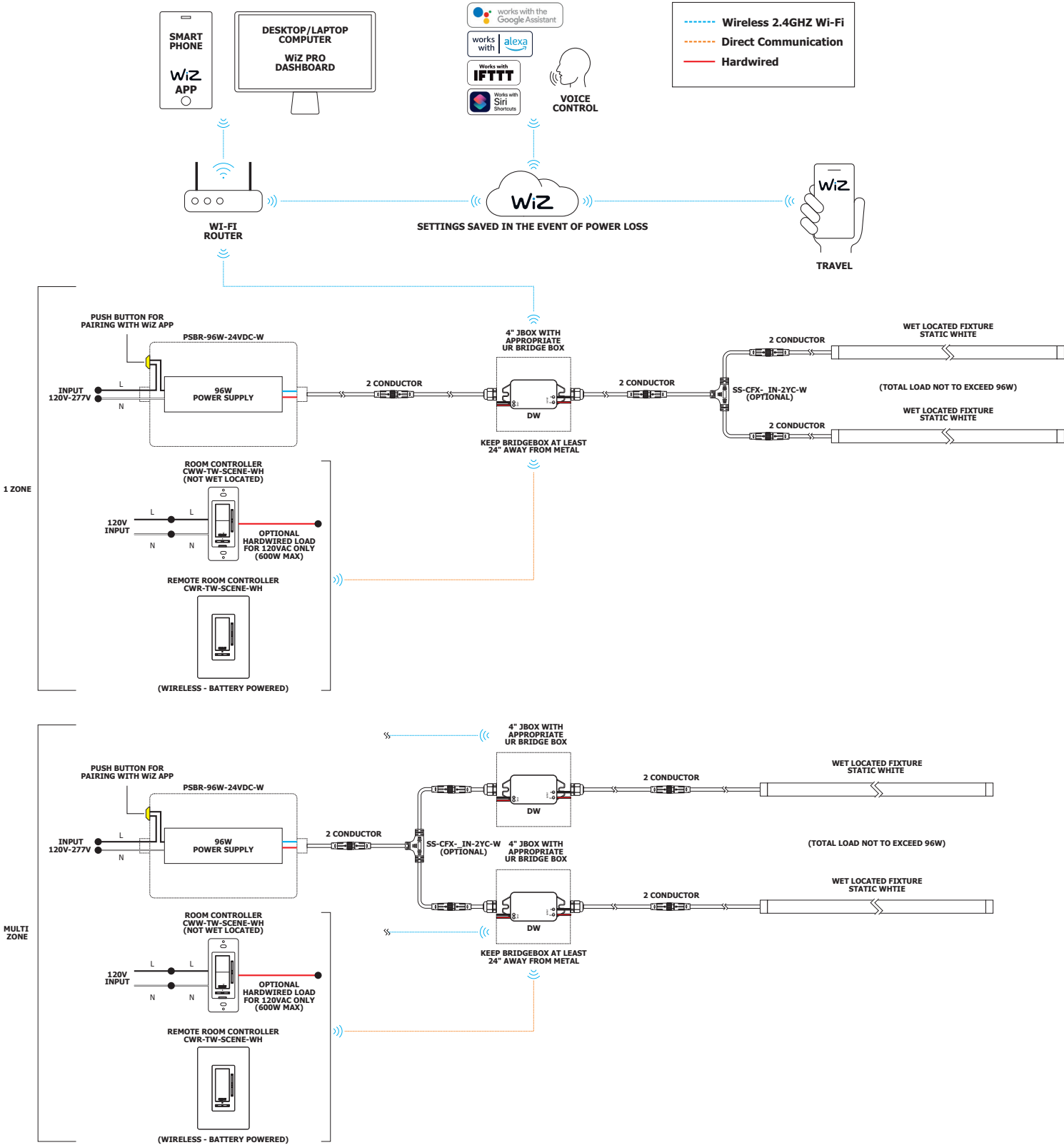
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## OUTDOOR WIRING DIAGRAMS



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