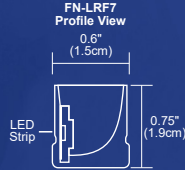
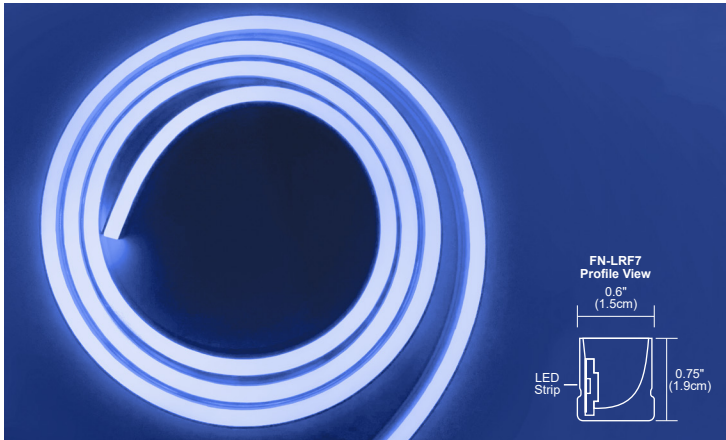


# FLEX NEON LRF7 0.7" FLAT LENS INDOOR/OUTDOOR

24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W

ASSEMBLED IN AMERICA

REV 02.13.25



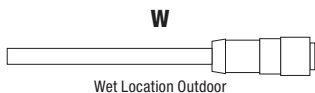
## DESCRIPTION

LRF7 Flexible Neon Bends Left or Right with a 0.7" wide Flat lens, offering superior color while creating uniform illumination without visible dots. RGB (Red, Green and Blue), RGB+W (Red, Green and Blue, Plus White) and Static Color. 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. For quick & easy reference, plus the most up-to-date pricing, use our [Flex Neon LRF7 Configurator](#).

## SPECIFICATIONS

Flat top view 0.7" 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, IP67. ETL/UL, RoHS |
| POWER SUPPLY          | Color Changing (DMX) Power Supply 120/277VAC-24VDC, Sold Separately       |
| ORDERING INCREMENTS   | 2.4"                                                                      |
| MAX LENGTH            | 20' at 5 watts, 15' at 6 watts                                            |
| BENDING               | 4" Minimum Radius                                                         |
| MOUNTING              | Clips included every 12"                                                  |
| BEAM ANGLE            | 120°                                                                      |
| 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

• [Home Integration Solutions](#)

### OUTDOOR/ WET LOCATION

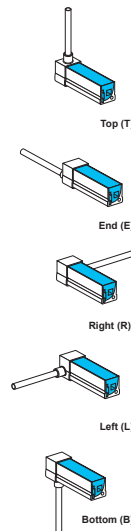
• [DMX & Controls](#)

### INDOOR

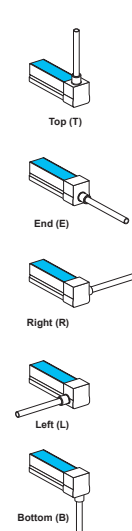
• [DMX & Controls](#)

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

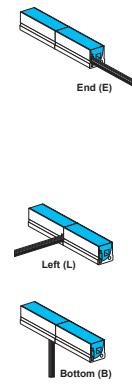
### Wet Location Input Wire Leads



### Wet Location Output Wire Leads



### Seamless Indoor Input and Output Leads



| System           | Viewing Angle Model Shape                               | Wattage               | Length in Inches                 | Color Temperature                                   | 5" Input Wire Feed        | 5" Output Wire                 | Environment                                         |
|------------------|---------------------------------------------------------|-----------------------|----------------------------------|-----------------------------------------------------|---------------------------|--------------------------------|-----------------------------------------------------|
| <b>FN</b>        | <b>LRF7</b>                                             | <b>5W</b>             | <b>240</b>                       | <b>RGB</b>                                          | <b>E</b>                  | <b>L</b>                       | <b>W</b>                                            |
| FN Flex Neon 24V | LRF7 Left or Right side bend Flat top view 0.7" x 0.75" | 5W 4.4 watts per foot | 6-240 (20ft max) 2.4" increments | RGB Red, Green and Blue (5 Watt Only)               | T Top Power Input Wire    | T Top Wire Lead Out            | S Seamless Indoor / Damp location bare wire leads   |
|                  |                                                         | 6W 6.3 watts per foot | 6-180 (15ft max) 3" increments   | RGB20K Red, Green, Blue + White 2000K (6 Watt Only) | E End Power Input Wire    | E End Wire Lead Out            | location bare wire leads                            |
|                  |                                                         |                       |                                  | RGB27K Red, Green, Blue + White 2700K               | L Left Power Input Wire   | L Left Wire Lead Out           | Bottom and Left Feed Only                           |
|                  |                                                         |                       |                                  | Special Order                                       | R Right Power Input Wire  | R Right Wire Lead Out          | W Outdoor wet location Barrel Connector cable leads |
|                  |                                                         |                       |                                  | RGB30K Red, Green, Blue + White 3000K               | B Bottom Power Input Wire | B Bottom Wire Lead Out         |                                                     |
|                  |                                                         |                       |                                  | Special Order                                       |                           | CA Cap at end, no feed through |                                                     |
|                  |                                                         |                       |                                  | RGB40K Red, Green, Blue + White 4000K               |                           |                                |                                                     |
|                  |                                                         |                       |                                  | Special Order                                       |                           |                                |                                                     |

\*Seamless Indoor: E, L, B Only

\*\*Indoor Seamless: No output feed wire, No cap will be provided

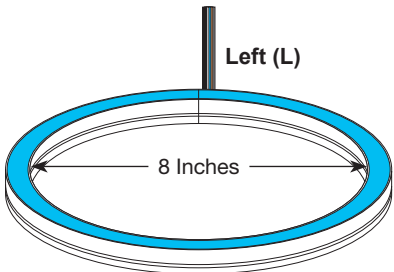
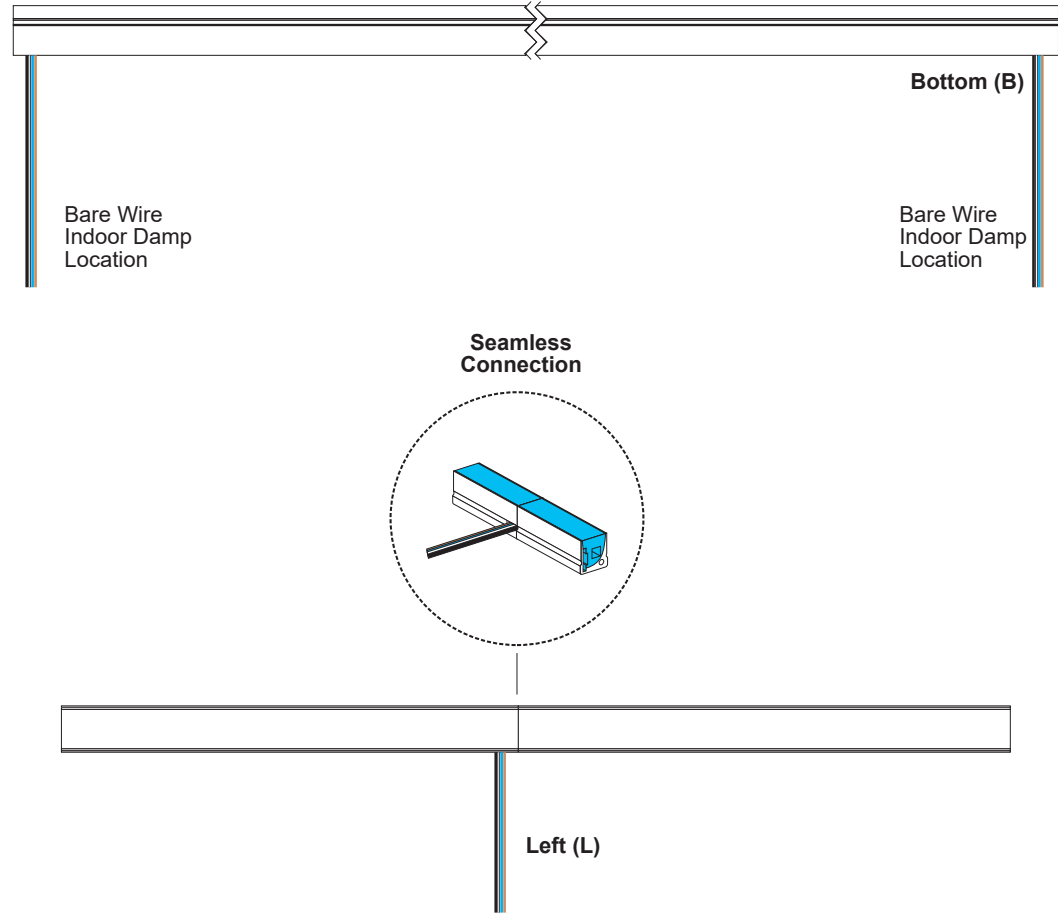
|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

# FLEX NEON LRF7 0.7" FLAT LENS INDOOR/OUTDOOR

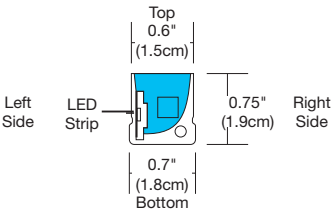
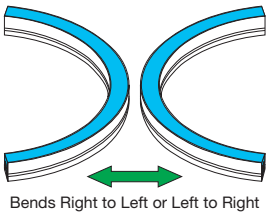
24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W

Drawings: Flex Neon LRF7

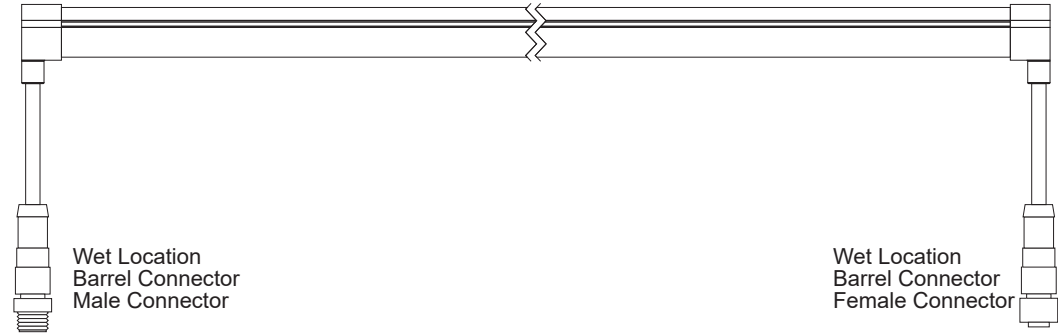
## Seamless (S) Connection Indoor / Damp Rated with No End Cap



Seamless Circle



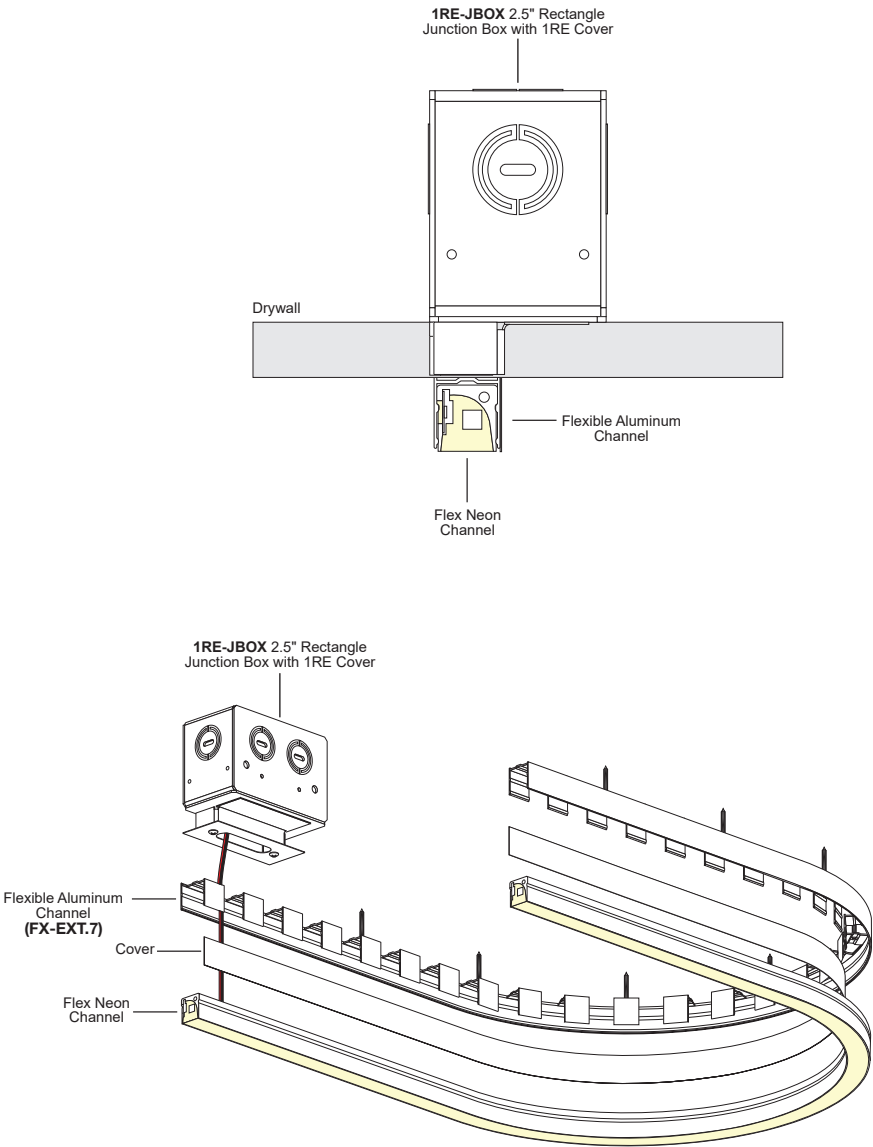
## Wet (W) Outdoor Location with End Cap



# FLEX NEON LRF7 0.7" FLAT LENS INDOOR/OUTDOOR

24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W

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



|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

# FLEX NEON LRF7 0.7" FLAT LENS INDOOR/OUTDOOR

24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W

## LENGTH CHART Actual lengths for Flex Neon LRF7

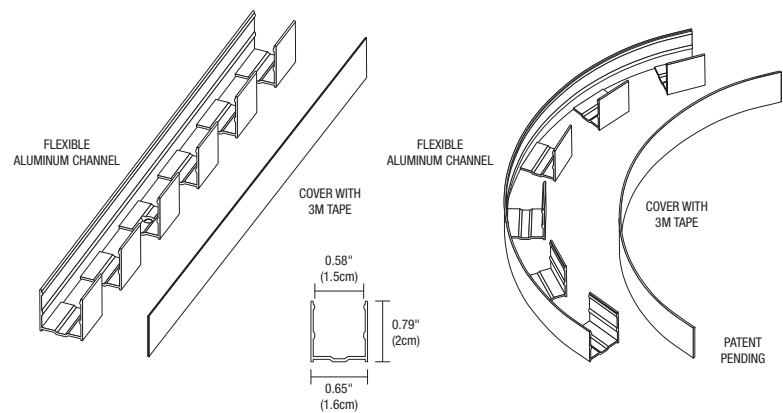
| LENGTH CHART - RGB              |                  |                                 |                  |                                 |                  |                                 |                  |                                 |                  |                                 |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

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

|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

FLEX NEON LRF7 OUTDOOR ACCESSORIES

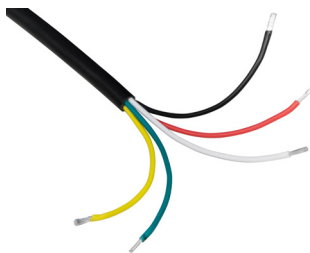
24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W



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.

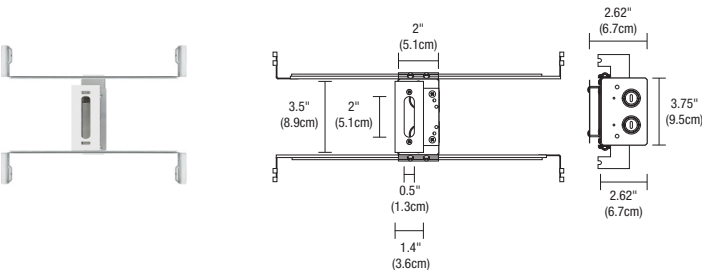
| Product                               | Length     | Finish               |
|---------------------------------------|------------|----------------------|
| <b>FX-EXT.7</b>                       | <b>4FT</b> | <b>WH</b>            |
| FX-EXT.7 Flexible Extrusion 0.7" Wide | 4FT 4 Feet | BK Black<br>WH White |



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



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

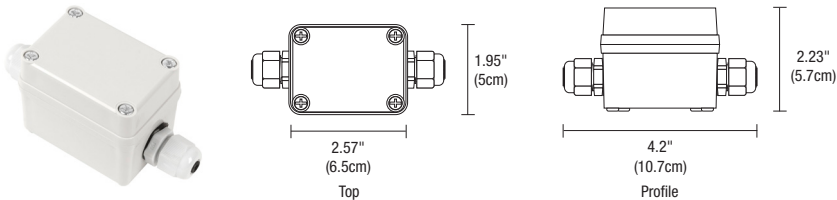
| Product   | Canopy           | Product           |
|-----------|------------------|-------------------|
| <b>C</b>  | <b>1RE</b>       | <b>JBOX</b>       |
| C Channel | 1RE 1" Rectangle | JBOX Junction Box |

FLEX NEON LRF7 OUTDOOR ACCESSORIES

24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W

WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



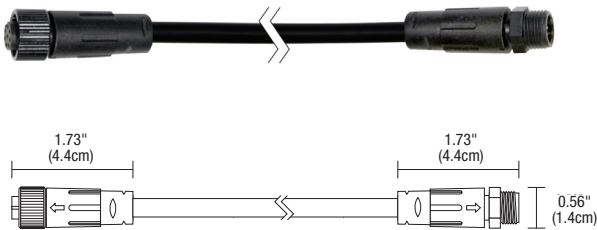
| Product          | Type              | Option         |
|------------------|-------------------|----------------|
| <b>2RE</b>       | <b>JBOX</b>       | <b>W</b>       |
| 2RE 2" Rectangle | JBOX Junction Box | W Wet Location |



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.

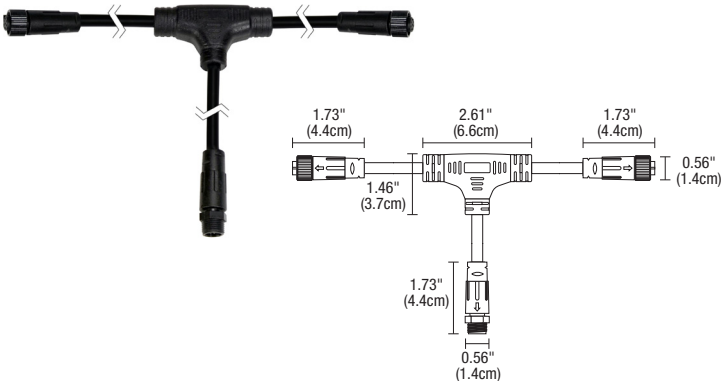
| Product                     | Canopy           | Product           | Size                                                         | Type                          | Option         |
|-----------------------------|------------------|-------------------|--------------------------------------------------------------|-------------------------------|----------------|
| <b>SS</b>                   | <b>2RE</b>       | <b>JBOX</b>       | <b>6IN</b>                                                   | <b>RGBW</b>                   | <b>W</b>       |
| SS LED Soft Strip Flex Neon | 2RE 2" Rectangle | JBOX Junction Box | 6IN 6" Five Wire Connection<br>96IN 96" Five Wire Connection | RGBW RGBW<br>(RGB COMPATIBLE) | 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                 | Conductor      | Option         |
|-----------------------------|-------------------------------|----------------------|----------------|----------------|
| <b>SS</b>                   | <b>CFX</b>                    | <b>16IN</b>          | <b>6C</b>      | <b>W</b>       |
| SS Soft Strip and Flex Neon | CFX Flexible 4 Wire Connector | 16IN 16"<br>96IN 96" | 6C 6 Conductor | W Wet Location |



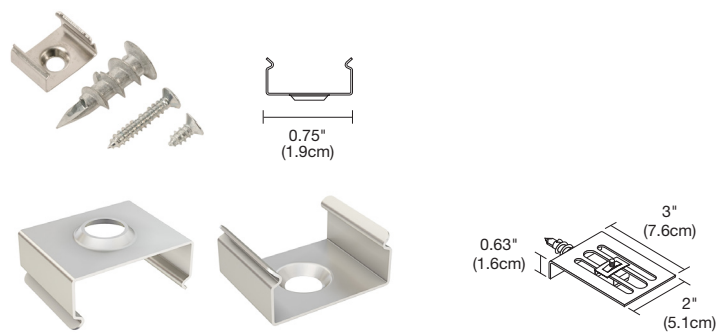
WET LOCATION T-CONNECTOR

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>6YC</b>              | <b>W</b>       |
| SS Soft Strip and Flex Neon | CFX Flexible 4 Wire Connector | 4IN 4"     | 6YC Y-Shape 6 Conductor | W Wet Location |

FLEX NEON LRF7 OUTDOOR ACCESSORIES

24VDC, 5W | 6W BENDS LEFT/RIGHT RGB, RGB+W



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 |