

## ARCUS CORE 3D LARGE - COMBO SYSTEM

(Standard Cut + Free Cut Finishing Piece)

3D Bending · Static White

## Features

The Arcus Combo System combines standard cut and free cut capabilities to provide precise, made-to-order lengths, utilizing Standard Cuts for the majority of the runs, with Free Cuts reserved only for the finishing segments. This combo usage achieves cost savings of 20 - 40% versus using Free Cuts for the entire length. Both Arcus Standard Cut and Free Cut maintain consistent binning and brightness.

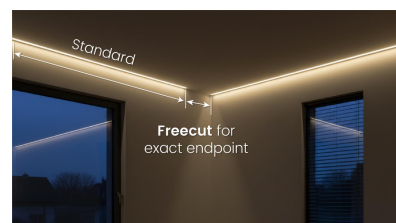
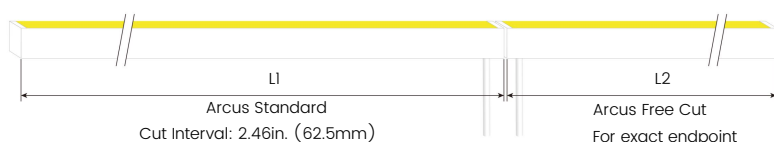
The system is suitable for indoor and outdoor applications, and delivers exceptional performance with a CRI over 90, brightness of up to 310 lm/ft, ensuring robustness and design flexibility.

## Applications

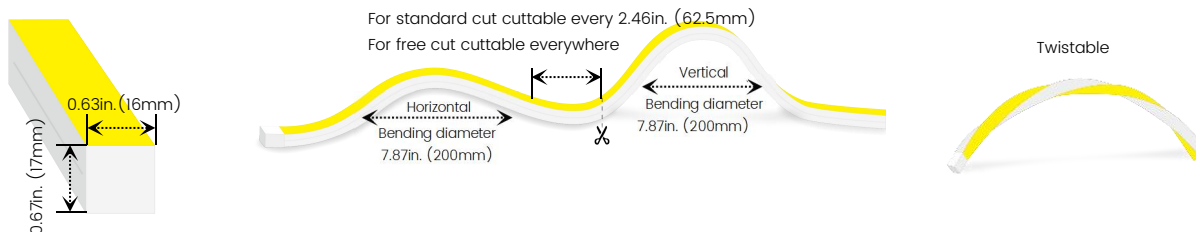
Living rooms, TV walls, feature walls, under-cabinet areas, staircases, ceiling coves, hallways, etc.



## Combo System



## Dimensions



\*FT/FO end caps are flush-finished with the strip body.

## Order Code

| Model   | Environment   | Voltage   | CCT       | Power        | End Cap              | Left Feed Entry                                     |
|---------|---------------|-----------|-----------|--------------|----------------------|-----------------------------------------------------|
| AC3DL   | D4-Dry (IP54) | 24V-DC24V | 22K-2200K | 3.0~3.05W/ft | FT Flush translucent | F Front OW Open wire 3.28ft (1m)                    |
| AC3DLFC | W7-Wet (IP67) |           | 27K-2700K |              | FO Flush opaque      | B Bottom MC Male connector with 0.98ft (30cm) cable |
|         |               |           | 30K-3000K |              |                      | S Side FC Female connector with 0.98ft (30cm) cable |
|         |               |           | 35K-3500K |              |                      | C Closed NA Only for Closed Feed Entry              |
|         |               |           | 40K-4000K |              |                      |                                                     |

\*AC3DLFC: Free Cut delivers precise field-cut lengths for the last segment while keeping in line with standard cut in dimensions, binning, output, and mounting for a uniform appearance.

\*Flush translucent and opaque are factory-made only.

## Assembly Builder

## Assembly Builder

|          | Right Feed Entry                             | Length                     |
|----------|----------------------------------------------|----------------------------|
| F Front  | OW Open wire 3.28ft (1m)                     | Max nominal 16.4ft (5m)    |
| B Bottom | MC Male connector with 0.98ft (30cm) cable   | Increment 2.46in. (62.5mm) |
| S Side   | FC Female connector with 0.98ft (30cm) cable | * For ARCUS CORE 3D LARGE  |
| C Closed | NA Only for Closed Feed Entry                |                            |

\*We will manufacture to the requested length considering the increment length.

## Mounting Order Code

| Product Code                                |
|---------------------------------------------|
| Please select on the Mounting Options page. |

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Lumen Output (lm/ft)

| Temp./Color               | 3.05W/ft                                          |
|---------------------------|---------------------------------------------------|
| ■ 2200K                   | 240                                               |
| ■ 2700K                   | 274                                               |
| ■ 3000K                   | 293                                               |
| ■ 3500K                   | 310                                               |
| ■ 4000K                   | 310                                               |
| Max. Run for Class 2*     | 16.4ft (5m) <sup>1</sup> 16.4ft (5m) <sup>2</sup> |
| Max. Run Supported Length | 16.4ft (5m) <sup>1</sup> 16.4ft (5m) <sup>2</sup> |

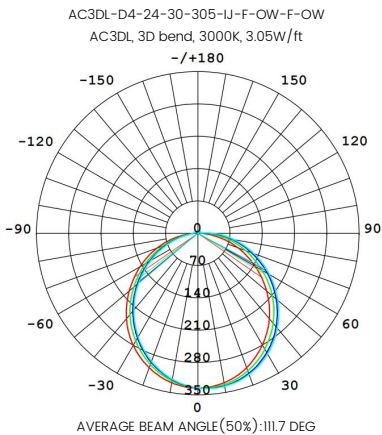
1. Max run for standard cut.

2. Max run for Free cut.

Technical Details

|                       |                         |
|-----------------------|-------------------------|
| Efficacy              | 102lm/W @4000K 3.05W    |
| CRI                   | Ra≥90                   |
| Beam Angle            | 120°                    |
| LED MacAdam           | 3 steps                 |
| Average Life(L70)     | > 44,000 hours          |
| Storage Temperature   | -40~149°F (-40°C~ 65°C) |
| Operating Temperature | -40~149°F (-40°C~ 65°C) |

Photometry



Zonal Lumen Summary 3000K

| Zone  | Lumen | % Fixture |
|-------|-------|-----------|
| 0~30  | 258.7 | 25.7%     |
| 0~40  | 422.6 | 42%       |
| 0~60  | 746.2 | 74.2%     |
| 0~90  | 976.3 | 97.1%     |
| 0~180 | 1005  | 100%      |

UNIT: CD

- C0/180, 110.9
- C30/210, 111.6
- C60/240, 112.1
- C90/270, 112.1

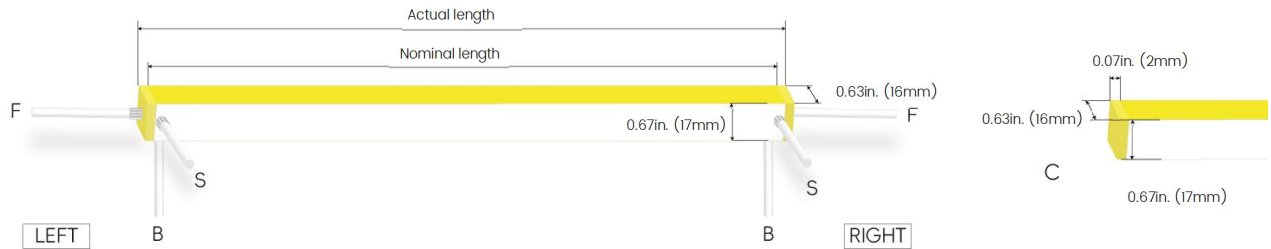
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(Standard Cut + Free Cut Finishing Piece)

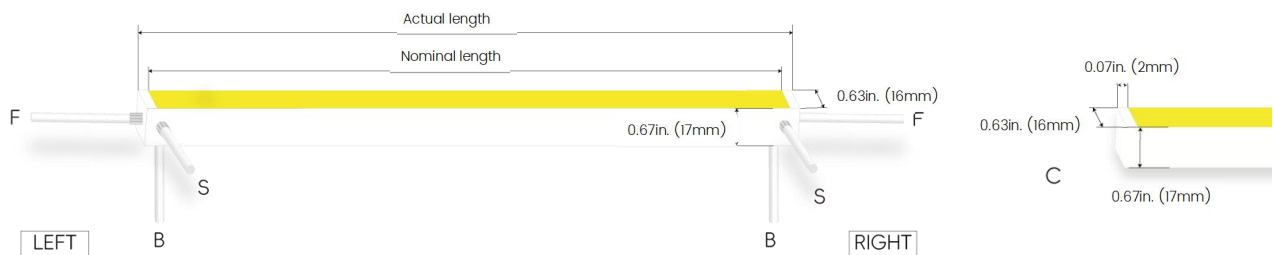
3D Bending · Static White

## Feed Entry / End Cap Options

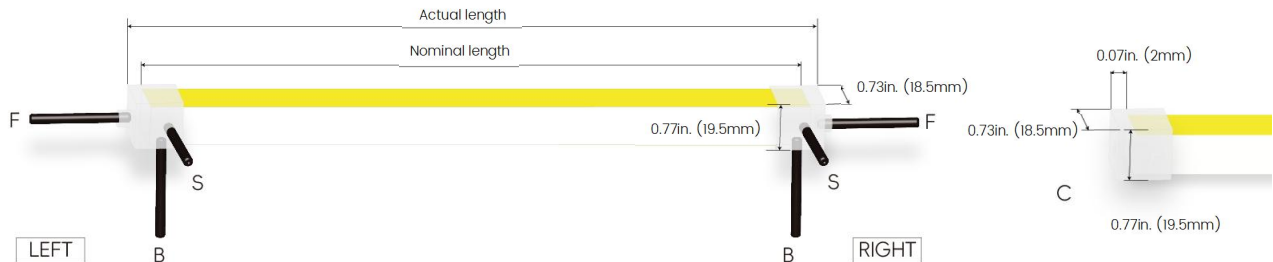
**FT:** Flush translucent end cap – IP54/IP67, factory-made only



**FO:** Flush opaque end cap – IP54/IP67, factory-made only



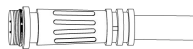
**SEC:** Silicone end cap – IP54/IP67, order separately



## Connector Wire Options



**OW:** Open wire, **Dry only**  
Standard 3.28ft (1m), 18 AWG (wire length customizable)



**MC:** Male connector, **Wet**  
Standard 0.98ft (30cm), 18 AWG



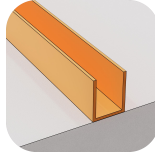
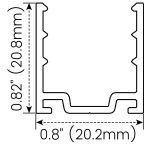
**FC:** Female connector, **Wet**  
Standard 0.98ft (30cm), 18 AWG

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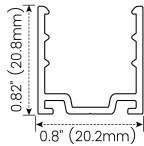
3D Bending · Static White

## Mounting Options



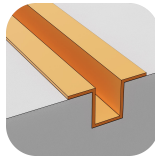
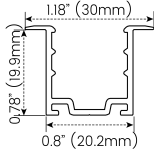
### ARCUS-L-SC

|                 |                          |
|-----------------|--------------------------|
| Name            | Straight surface channel |
| Material        | Aluminum                 |
| Standard Length | 3.28ft (1M)              |



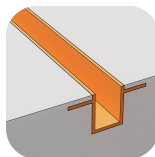
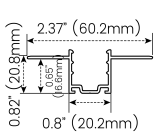
### ARCUS-L-BC

|                     |                          |
|---------------------|--------------------------|
| Name                | Bendable surface channel |
| Material            | Aluminum                 |
| Standard Length     | 3.28ft (1M)              |
| Min. bending radius | 23.6in. (600mm)          |



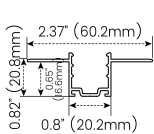
### ARCUS-L-RC

|                 |                           |
|-----------------|---------------------------|
| Name            | Straight recessed channel |
| Material        | Aluminum                  |
| Standard Length | 3.28ft (1M)               |



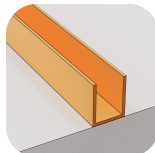
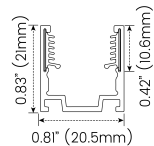
### ARCUS-L-MC

|                 |                |
|-----------------|----------------|
| Name            | Mud-in channel |
| Material        | Aluminum       |
| Standard Length | 3.28ft (1M)    |



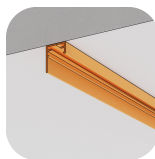
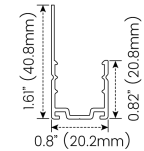
### ARCUS-L-BMC

|                     |                         |
|---------------------|-------------------------|
| Name                | Bendable mud-in channel |
| Material            | Aluminum                |
| Standard Length     | 3.28ft (1M)             |
| Min. bending radius | 23.6in. (600mm)         |



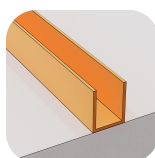
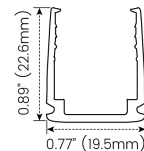
### ARCUS-L-SCS

|                 |                                               |
|-----------------|-----------------------------------------------|
| Name            | Straight surface channel with silicone groove |
| Material        | Aluminum                                      |
| Standard Length | 3.28ft (1M)                                   |



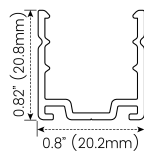
### ARCUS-L-LBC

|                 |                     |
|-----------------|---------------------|
| Name            | Light-block channel |
| Material        | Aluminum            |
| Standard Length | 3.28ft (1M)         |



### ARCUS-L-PC

|                 |               |
|-----------------|---------------|
| Name            | PC channel    |
| Material        | Polycarbonate |
| Standard Length | 3.28ft (1M)   |



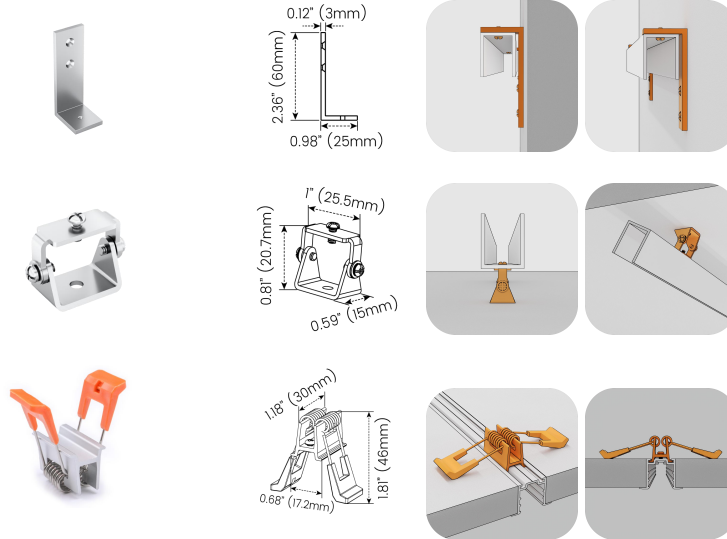
### ARCUS-L-CL

|                 |                |
|-----------------|----------------|
| Name            | Mounting clip  |
| Material        | Aluminum       |
| Standard Length | 0.98in. (25mm) |

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## ARCUS-L-LS

|                 |                           |
|-----------------|---------------------------|
| Name            | L-shaped mounting bracket |
| Material        | Aluminum                  |
| Standard Length | 0.79in. (20mm)            |

\* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.

## ARCUS-L-AC

|                 |                          |
|-----------------|--------------------------|
| Name            | Adjustable mounting clip |
| Material        | Stainless steel          |
| Standard Length | 1 in. (25.5mm)           |

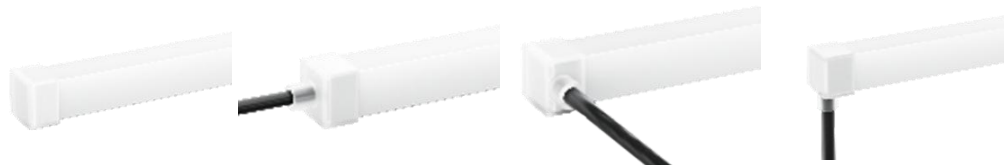
\* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.

## ARCUS-L-RC-SPC

|              |             |
|--------------|-------------|
| Name         | Spring clip |
| Standard Pkg | 1pcs        |

\* ARCUS-L-RC-SPC must be installed with aluminum channel ARCUS-L-RC.

## End Caps (Optional, purchase for extra)



**ARCUS-L-SEC-C**  
Silicone closed end cap

**ARCUS-L-SEC-F-2P**  
Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin

**ARCUS-L-SEC-S-2P**  
Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin

**ARCUS-L-SEC-B-2P**  
Silicone end cap bottom entry with 0.98ft (30cm) cable, 2 pin

## Additional Accessories (Optional, purchase for extra)



**MCW-2P-67**  
Male connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 18 AWG

**FCW-2P-67**  
Female connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 18 AWG

**MCB-2P-67**  
Male connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 18 AWG

**FCB-2P-67**  
Female connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 18 AWG

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## Drivers

## Non-dimmable

| Code         | Max Load | Input      | Output | Class 2 | With Junction Box | Environment  | Size (L x W x H)                      |
|--------------|----------|------------|--------|---------|-------------------|--------------|---------------------------------------|
| KV-24030-ASW | 30W      | 100-277VAC | 24V    | Yes     | No                | Dry/Damp     | 6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm) |
| KV-24060-ASW | 60W      |            |        |         |                   |              | 7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm) |
| KV-24096-ASW | 96W      |            |        |         |                   | Dry/Damp/Wet | 9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)   |

## Phase cut/Triac-dimmable

| Code           | Max Load     | Input      | Output | Class 2 | With Junction Box | Environment  | Size (L x W x H)                        |
|----------------|--------------|------------|--------|---------|-------------------|--------------|-----------------------------------------|
| KVF-24030-TDW  | 30W          | 100-277VAC | 24V    | Yes     | No                | Dry/Damp     | 6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)   |
| KVF-24060-TDW  | 60W          |            |        |         |                   |              | 7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)   |
| KVF-24096-TDW  | 96W          |            |        |         |                   | Dry/Damp/Wet | 9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)     |
| KVF-24030-TDWJ | 30W          |            |        |         | Yes               | Dry/Damp     | 6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)   |
| KVF-24060-TDWJ | 60W          |            |        |         |                   |              | 7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)   |
| KVF-24096-TDWJ | 96W          |            |        |         |                   |              | 8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)   |
| KVF-24192-TDWJ | 192W (96Wx2) |            |        |         |                   |              | 10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm) |
| KVF-24288-TDWJ | 288W (96Wx3) |            |        |         |                   |              | 11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm) |
| KVF-24384-TDWJ | 384W (96Wx4) |            |        |         |                   |              | 12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm) |

## 4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)

| Code           | Max Load     | Input      | Output | Class 2 | With Junction Box | Environment  | Size (L x W x H)                        |
|----------------|--------------|------------|--------|---------|-------------------|--------------|-----------------------------------------|
| KVD-24030-DIM  | 30W          | 100-277VAC | 24V    | Yes     | No                | Dry/Damp     | 6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)   |
| KVD-24060-DIM  | 60W          |            |        |         |                   |              | 7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)   |
| KVD-24096-DIM  | 96W          |            |        |         |                   | Dry/Damp/Wet | 9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)     |
| KVD-24030-DIMJ | 30W          |            |        |         | Yes               | Dry/Damp     | 6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)   |
| KVD-24060-DIMJ | 60W          |            |        |         |                   |              | 7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)   |
| KVD-24096-DIMJ | 96W          |            |        |         |                   |              | 8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)   |
| KVD-24192-DIMJ | 192W (96Wx2) |            |        |         |                   |              | 10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm) |
| KVD-24288-DIMJ | 288W (96Wx3) |            |        |         |                   |              | 11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm) |
| KVD-24384-DIMJ | 384W (96Wx4) |            |        |         |                   |              | 12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm) |

## 5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)

| Code           | Max Load     | Input      | Output | Class 2 | With Junction Box | Environment  | Size (L x W x H)                        |
|----------------|--------------|------------|--------|---------|-------------------|--------------|-----------------------------------------|
| KVG-24030-DW   | 30W          | 100-277VAC | 24V    | Yes     | No                | Dry/Damp     | 6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)   |
| KVG-24060-DW   | 60W          |            |        |         |                   |              | 7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)   |
| KVG-24096-DW   | 96W          |            |        |         |                   | Dry/Damp/Wet | 9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)     |
| KVG-24030-DWJ  | 30W          |            |        |         | Yes               | Dry/Damp     | 6.5 x 3.7 x 1.6in. (16.5 x 9.5 x 4cm)   |
| KVG-24060-DWJ  | 60W          |            |        |         |                   |              | 7.4 x 3.7 x 1.6in. (18.8 x 9.5 x 4cm)   |
| KVG-24096-DWJ  | 96W          |            |        |         |                   |              | 8.7 x 3.7 x 1.6in. (22 x 9.5 x 4cm)     |
| KVG-C24192-DWJ | 192W (96Wx2) |            |        |         |                   |              | 10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm) |
| KVG-C24288-DWJ | 288W (96Wx3) |            |        |         |                   |              | 11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm) |
| KVG-C24384-DWJ | 384W (96Wx4) |            |        |         |                   |              | 12.8 x 5.5 x 1.9in. (32.5 x 14 x 4.8cm) |

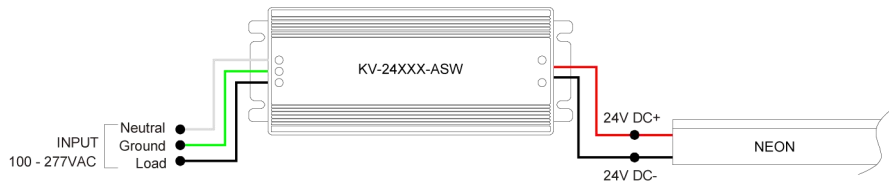
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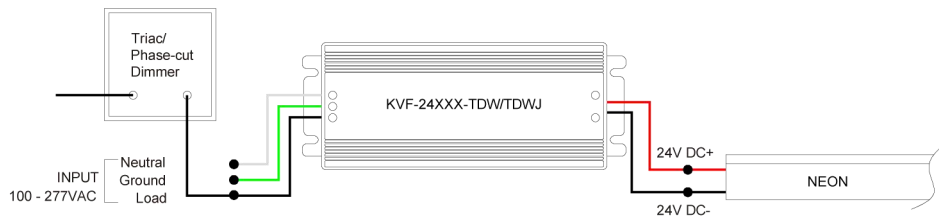
(Standard Cut + Free Cut Finishing Piece)

## Wiring Diagram

## Non-dimmable



## Phase cut/Triac-dimmable



## 4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)



## 5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)



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24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

| Total load | 10 AWG            | 12 AWG           | 14 AWG           | 16 AWG          | 18 AWG          | 20 AWG          | 22 AWG          |
|------------|-------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| 5W / 0.2A  | 1730 ft (527.3 m) | 784 ft (238.9 m) | 397 ft (121.0 m) | 263 ft (80.2 m) | 175 ft (53.3 m) | 131 ft (39.9 m) | 107 ft (32.6 m) |
| 10W / 0.4A | 865 ft (263.6 m)  | 392 ft (119.4 m) | 199 ft (60.7 m)  | 132 ft (40.2 m) | 88 ft (26.8 m)  | 66 ft (20.1 m)  | 54 ft (16.5 m)  |
| 15W / 0.6A | 577 ft (175.9 m)  | 261 ft (79.6 m)  | 132 ft (40.2 m)  | 88 ft (26.8 m)  | 58 ft (17.7 m)  | 44 ft (13.4 m)  | 36 ft (11.0 m)  |
| 20W / 0.8A | 433 ft (132.0 m)  | 196 ft (59.7 m)  | 99 ft (30.2 m)   | 66 ft (20.1 m)  | 44 ft (13.4 m)  | 33 ft (10.1 m)  | 27 ft (8.2 m)   |
| 25W / 1.0A | 346 ft (105.5 m)  | 157 ft (47.9 m)  | 79 ft (24.1 m)   | 53 ft (16.2 m)  | 35 ft (10.7 m)  | 26 ft (7.9 m)   | 22 ft (6.7 m)   |
| 30W / 1.3A | 289 ft (88.1 m)   | 131 ft (39.9 m)  | 66 ft (20.1 m)   | 44 ft (13.4 m)  | 29 ft (8.8 m)   | 22 ft (6.7 m)   | 18 ft (5.5 m)   |
| 35W / 1.5A | 248 ft (75.6 m)   | 112 ft (34.1 m)  | 57 ft (17.4 m)   | 38 ft (11.6 m)  | 25 ft (7.6 m)   | 19 ft (5.8 m)   | 15 ft (4.6 m)   |
| 40W / 1.7A | 217 ft (66.1 m)   | 98 ft (29.9 m)   | 50 ft (15.2 m)   | 33 ft (10.1 m)  | 22 ft (6.7 m)   | 16 ft (4.9 m)   | 13 ft (4.0 m)   |
| 45W / 1.9A | 192 ft (58.5 m)   | 87 ft (26.5 m)   | 44 ft (13.4 m)   | 29 ft (8.8 m)   | 19 ft (5.8 m)   | 14 ft (4.3 m)   | 12 ft (3.7 m)   |
| 50W / 2.1A | 173 ft (52.7 m)   | 78 ft (23.8 m)   | 40 ft (12.2 m)   | 26 ft (7.9 m)   | 18 ft (5.5 m)   | 13 ft (4.0 m)   | 11 ft (3.4 m)   |
| 55W / 2.3A | 157 ft (47.9 m)   | 71 ft (21.6 m)   | 36 ft (11.0 m)   | 24 ft (7.3 m)   | 16 ft (4.9 m)   | 12 ft (3.7 m)   | 10 ft (3.0 m)   |
| 60W / 2.5A | 144 ft (43.9 m)   | 65 ft (19.8 m)   | 33 ft (10.1 m)   | 22 ft (6.7 m)   | 15 ft (4.6 m)   | 11 ft (3.4 m)   | 9 ft (2.7 m)    |
| 65W / 2.7A | 133 ft (40.5 m)   | 60 ft (18.3 m)   | 30 ft (9.1 m)    | 20 ft (6.1 m)   | 14 ft (4.3 m)   | 10 ft (3.0 m)   | 8 ft (2.4 m)    |
| 70W / 2.9A | 124 ft (37.8 m)   | 56 ft (17.1 m)   | 28 ft (8.5 m)    | 19 ft (5.8 m)   | 13 ft (4.0 m)   | 10 ft (3.0 m)   | 8 ft (2.4 m)    |
| 75W / 3.1A | 116 ft (35.4 m)   | 52 ft (15.9 m)   | 26 ft (7.9 m)    | 17 ft (5.2 m)   | 12 ft (3.7 m)   | 9 ft (2.7 m)    | 7 ft (2.1 m)    |
| 80W / 3.3A | 109 ft (33.2 m)   | 49 ft (14.9 m)   | 25 ft (7.6 m)    | 16 ft (4.9 m)   | 11 ft (3.4 m)   | 8 ft (2.4 m)    | 7 ft (2.1 m)    |
| 85W / 3.5A | 103 ft (31.4 m)   | 46 ft (14.0 m)   | 23 ft (7.0 m)    | 15 ft (4.6 m)   | 10 ft (3.0 m)   | 8 ft (2.4 m)    | 6 ft (1.8 m)    |
| 90W / 3.8A | 97 ft (29.6 m)    | 44 ft (13.4 m)   | 22 ft (6.7 m)    | 15 ft (4.6 m)   | 10 ft (3.0 m)   | 7 ft (2.1 m)    | 6 ft (1.8 m)    |
| 96W / 4.0A | 91 ft (27.7 m)    | 41 ft (12.5 m)   | 21 ft (6.4 m)    | 14 ft (4.3 m)   | 9 ft (2.7 m)    | 7 ft (2.1 m)    | 6 ft (1.8 m)    |