

## ORLUX SMALL

## Features

- Field-cut everywhere for an exact fit; continuous illumination with no dark gaps.
- IP65 rated, ideal for damp location and sheltered exterior
- 5 years warranty

## Applications

Under cabinets, niches, shelves, closets, millwork, furnitures, etc.



RoHS

ONE  
BIN24V  
DC

## Vertical Bending · Horizontal Bending

Date

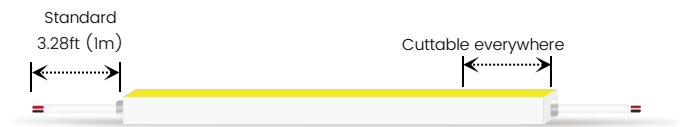
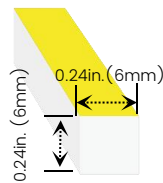
Fixture type

Project name

Project phase

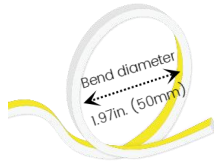


## Dimensions (Vertical Bending · Horizontal Bending)



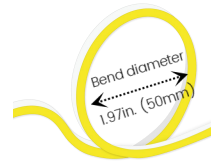
## Bending Directions &amp; Diameters

TV - Top View (Vertical Bending)



\*Horizontal bending and 3D bending are prohibited.

SV - Side View (Horizontal Bending)



\*Vertical bending and 3D bending are prohibited.

## Order Code

| Series | Environment   | Voltage  | Temp./Color | Power        | End Cap                   | Left Feed Entry                              |
|--------|---------------|----------|-------------|--------------|---------------------------|----------------------------------------------|
| OTVS   | W5-Wet (IP65) | 24-DC24V | 27-2700K    | 183-1.83W/ft | IJ Injected (IP65)        | F Front                                      |
| OSVS   |               |          | 30-3000K    |              | IJC Clear injected (IP65) | B Bottom                                     |
|        |               |          | 35-3500K    |              | SEC Silicone (IP65)       | S Side                                       |
|        |               |          | 40-4000K    |              |                           | C Closed                                     |
|        |               |          | 57-5700K    |              |                           | OW Open wire 3.28ft (1m)                     |
|        |               |          |             |              |                           | MC Male connector with 0.98ft (30cm) cable   |
|        |               |          |             |              |                           | FC Female connector with 0.98ft (30cm) cable |
|        |               |          |             |              |                           | NA Only for Closed Feed Entry                |

\*Injected and clear injected end cap are factory-made only.

## Assembly Builder

## Assembly Builder

| Right Feed Entry | Length                                       |
|------------------|----------------------------------------------|
| F Front          | OW Open wire 3.28ft (1m)                     |
| B Bottom         | MC Male connector with 0.98ft (30cm) cable   |
| S Side           | FC Female connector with 0.98ft (30cm) cable |
| 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.

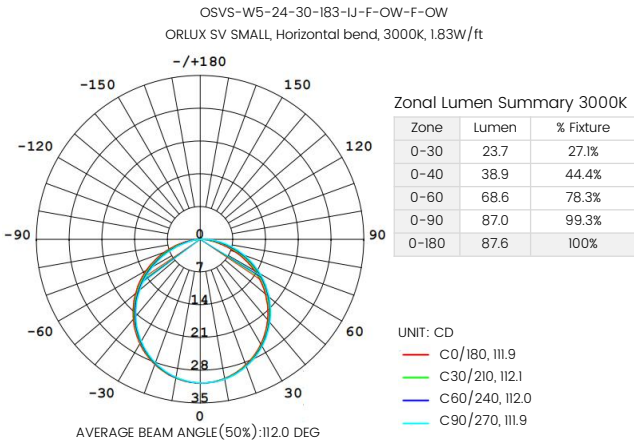
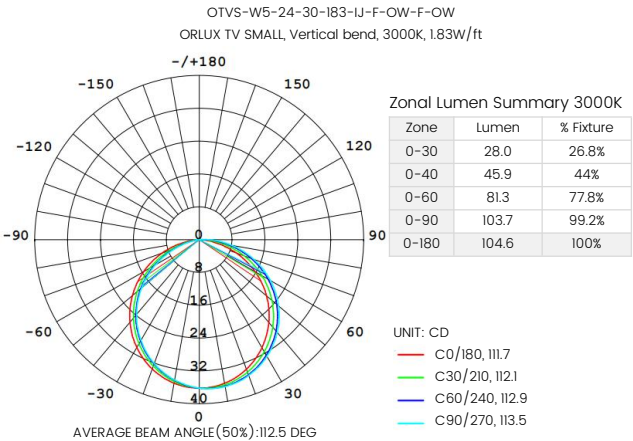
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Vertical Bending · Horizontal Bending

| Lumen Output (lm/ft)  |                  |                    |
|-----------------------|------------------|--------------------|
| Temp./Color           | Vertical Bending | Horizontal Bending |
|                       | 1.83W/ft         | 1.83W/ft           |
| 2700K                 | 102              | 89                 |
| 3000K                 | 108              | 90                 |
| 3500K                 | 110              | 92                 |
| 4000K                 | 113              | 95                 |
| 5700K                 | 115              | 99                 |
| Max. Run for Class 2* | 16.4ft (5m)      | 16.4ft (5m)        |

| Technical Details     |                         |                    |
|-----------------------|-------------------------|--------------------|
|                       | Vertical Bending        | Horizontal Bending |
| Efficacy              | 61.7lm/W @4000K         | 51.9lm/W @4000K    |
| CRI                   | Ra≥90                   | Ra≥90              |
| Beam Angle            | 110°                    | 110°               |
| Average Life (L70)    | > 47,000 hours          | > 47,000 hours     |
| Storage Temperature   | -40-140°F (-40°C~ 60°C) |                    |
| Operating Temperature | -40-113°F (-40°C~ 45°C) |                    |

Photometry

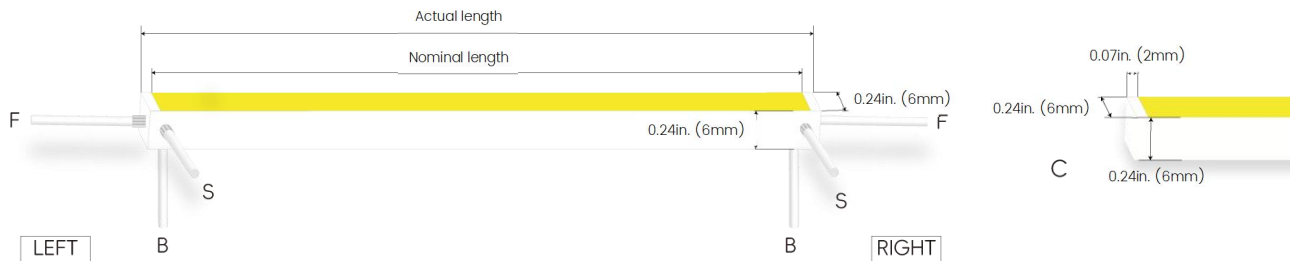


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Vertical Bending · Horizontal Bending

Feed Entry / End Cap Options

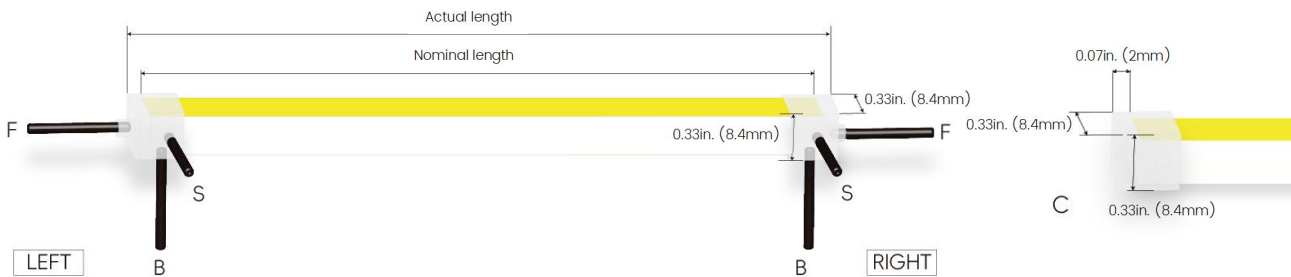
IJ: Injected end cap – IP65, factory-made only



IJC: Clear injected end cap – IP65, factory-made only



SEC: Silicone end cap – IP65



Connector Wire Options



**OW:** Open wire, **Dry only**  
Standard 3.28ft (1m), 24 AWG (wire length customizable)

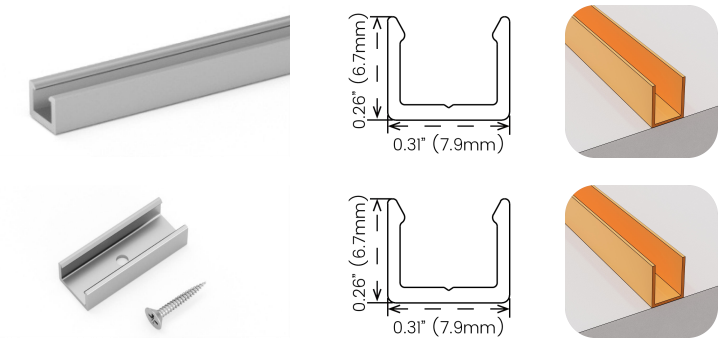
**MC:** Male connector, 2pin, 24AWG, IP20, 0.66ft(20cm)

**FC:** Female connector, 2pin, 24AWG, IP20, 0.66ft(20cm)

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Vertical Bending · Horizontal Bending

Mounting Options



| ORLUX-S-SC      |                          |
|-----------------|--------------------------|
| Name            | Straight surface channel |
| Material        | Aluminum                 |
| Standard Length | 3.28ft (1m)              |

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

End Caps (Optional, purchase for extra)



|                                                 |                                                                                         |                                                                                        |                                                                                          |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>ORLUX-S-SEC-C</b><br>Silicone closed end cap | <b>ORLUX-S-SEC-F-2P</b><br>Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin | <b>ORLUX-S-SEC-S-2P</b><br>Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin | <b>ORLUX-S-SEC-B-2P</b><br>Silicone end cap bottom entry with 0.98ft (30cm) cable, 2 pin |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

Additional Accessories (Optional, purchase for extra)



|                                                                        |                                                                          |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>MC-2P-20</b><br>Male connector with 0.66ft (20cm) 2pin, IP20, 24AWG | <b>FC-2P-20</b><br>Female connector with 0.66ft (20cm) 2pin, IP20, 24AWG |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|

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Vertical Bending · Horizontal Bending

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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Vertical Bending · Horizontal Bending

## Wiring Diagram

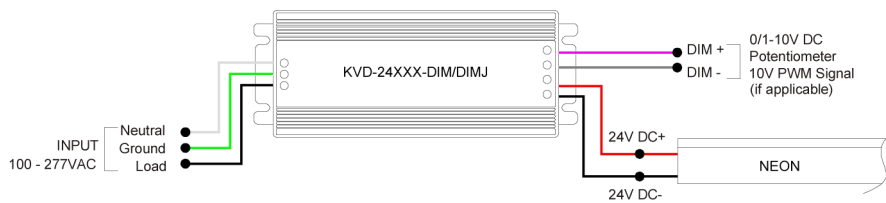
### Non-dimmable



### 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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Vertical Bending · Horizontal Bending

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)    |