



# DW-HE24/2.5

LED Strips - For Warm Dim Applications



- High efficacy dynamic white linear LED strip for warm dim applications
- 14 diodes per 2" cut point
- 7 diodes per one color temperature
- Ambient operating temp: -4-145°F
- Installation temp: 50-100°F | Storage temp: -4-140°F
- Calculated L70 = 70000 hrs
- When using DALI and DMX power supplies, LED wattage must be doubled

| 1           | 2     | 3                | 4                 | 5                  | 6          | 7         | 8                  |
|-------------|-------|------------------|-------------------|--------------------|------------|-----------|--------------------|
| V/WATTS     | RATED | CCT - LUMENS/CRI | CONNECTOR/WIRE IN | CONNECTOR/WIRE OUT | WIRE COLOR | WIRE TYPE | ILLUMINATED LENGTH |
| DW-HE24/2.5 |       |                  |                   |                    |            |           |                    |

Sample Part Number: **DW-HE24/2.5-DRY-20/27-BW-CLS-WH-CL2-48"**

| 1 | V/WATTS  | 2  | RATED   | 3  | CCT - LUMENS/CRI   | 4  | CONNECTOR/WIRE IN | 5 | CONNECTOR/WIRE OUT |
|---|--|--|---|--|--|--|-------------------|---|--------------------|
|   | <b>DW-HE24/2.5</b><br><br>Voltage: 24VDC<br>Wattage: 2.5W/ft<br>LED engine is built with 3 wires requiring 0-10V, DMX or DALI control.<br>Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies. | <b>DRY</b> IP20  | <b>18/30</b> 1800K/3000K<br><b>18/35</b> 1800K/3500K<br><b>20/27</b> 2000K/2700K<br><b>20/30</b> 2000K/3000K<br><b>24/40</b> 2400K/4000K<br><b>27/40</b> 2700K/4000K<br><b>27/55</b> 2700K/5500K  | <b>18/30</b> 1800K/3000K<br><b>18/35</b> 1800K/3500K<br><b>20/27</b> 2000K/2700K<br><b>20/30</b> 2000K/3000K<br><b>24/40</b> 2400K/4000K<br><b>27/40</b> 2700K/4000K<br><b>27/55</b> 2700K/5500K   | <b>BW</b> Bare Wire (Standard 24")<br><b>CLS</b> Closed End (No feed)<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire In not needed to specify product. Typical selection is BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | <b>BW</b> Bare Wire (Standard 24")<br><b>CLS</b> Closed End (No feed)<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) |                   |   |                    |
|   | <b>DMP</b> IP54  | <b>22/30</b> 2200K/3000K<br><b>22/35</b> 2200K/3500K<br><b>24/30</b> 2400K/3000K<br><b>24/40</b> 2400K/4000K<br><b>27/40</b> 2700K/4000K   | <b>BW</b> Bare Wire (Standard 24")<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire In not needed to specify product. Typical selection is BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | <b>BW</b> Bare Wire (Standard 24")<br><b>CLS</b> Closed End (No feed)<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) |  |  |                   |   |                    |
|   | <b>WET</b> IP67  | <b>18/30</b> 1800K/3000K<br><b>18/35</b> 1800K/3500K<br><b>20/27</b> 2000K/2700K<br><b>20/30</b> 2000K/3000K<br><b>24/40</b> 2400K/4000K<br><b>27/40</b> 2700K/4000K<br><b>27/55</b> 2700K/5500K | <b>BW</b> Bare Wire (Standard 24")<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire In not needed to specify product. Typical selection is BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | <b>BW</b> Bare Wire (Standard 24")<br><b>CLS</b> Closed End (No feed)<br><b>CON6</b> Connector 6"<br><b>CON24</b> Connector 24"<br><br>Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.<br>BW: Standard length is 24"; Max length is 120". Request custom length by writing in part number next to BW (example: BW48) |  |  |                   |   |                    |
| 6 | WIRE COLOR   | 7  | WIRE TYPE   | 8  | ILLUMINATED LENGTH   |  |                   |   |                    |
|   | <b>WH</b> White<br><b>BK</b> Black   | <b>CL2</b> Class 2<br><b>CL2P</b> Class 2 Plenum Rated<br><br>CL2P only available with bare wire leads (BW)  | <b>2"-230"</b> 2" increments<br><br>Available in reel lengths of 19.2' (Class 2) and 100'. Each reel will have a 2' soldered lead wire attached. Contact factory for larger reels.  |  |  |  |                   |   |                    |
|   | <b>WH</b> White<br><b>BK</b> Black   | <b>CL2</b> Class 2<br><b>CL2P</b> Class 2 Plenum Rated<br><br>CL2P only available with bare wire leads (BW)  | <b>2"-180"</b> 2" increments  |  |  |  |                   |   |                    |
|   | <b>WH</b> White<br><b>BK</b> Black   | <b>CL2</b> Class 2<br><b>CL2P</b> Class 2 Plenum Rated<br><br>CL2P only available with bare wire leads (BW)  | <b>2"-230"</b> 2" increments  |  |  |  |                   |   |                    |

5 year warranty | Warranty only valid with QTL power supplies | Field modifications must comply with QTL's installation methods otherwise warranty is null & void | All data has +/- 5% tolerance | UL Listed | Consult factory for alternate Kelvin temperature | Title 24 - JA8-2019 Strips: DRY and WET rated, 2000K and above



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### 3 CCT – LUMENS/CRI - DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with DW-HE24/2.5-DRY

For 20/27, 18/30, and 20/30

| CCT   | Lumen/ft | Luminous Efficacy | CRI Ra | CRI R9 | TM30 Rf | TM30 Rg | Circuit Wattage |
|-------|----------|-------------------|--------|--------|---------|---------|-----------------|
| 2700K | 270      | 108 Lm/W          | 97     | 96     | 94      | 100     | 2.50            |
| 3000K | 281      | 119 Lm/W          | 98     | 96     | 93      | 99      | 2.35            |

For 18/35, 24/40, 27/40 and 27/55

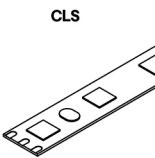
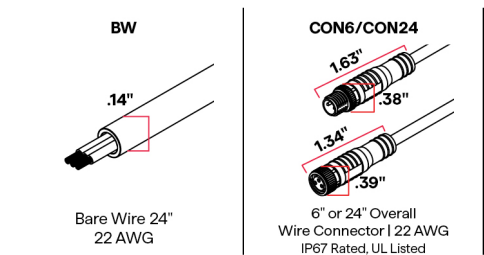
| CCT   | Lumen/ft | Luminous Efficacy | CRI Ra | CRI R9 | TM30 Rf | TM30 Rg | Circuit Wattage |
|-------|----------|-------------------|--------|--------|---------|---------|-----------------|
| 3500K | **       | ** Lm/W           | **     | **     | **      | **      | **              |
| 4000K | 292      | 120 Lm/W          | 98     | 96     | 92      | 100     | 2.40            |
| 5500K | 316      | 128 Lm/W          | 97     | 94     | 92      | 99      | 2.50            |

### TEMPERATURE RATINGS

|                                  | Min   | Max   |
|----------------------------------|-------|-------|
| Ambient Operating Temp - Surface | -4°F  | 145°F |
| Storage Temp                     | -4°F  | 140°F |
| Installation Temp                | -50°F | 100°F |

### 4 / 5 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

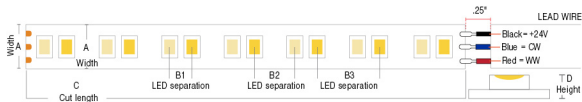


Not soldered

### 6 WIRE COLOR



### 8 ILLUMINATED LENGTH - DIMENSIONS



















| Section (in) | A     | B1    | B2    | B3    | C     | D     |
|--------------|-------|-------|-------|-------|-------|-------|
| DRY (IP20)   | 0.39" | 0.07" | 0.20" | 0.27" | 2.00" | 0.05" |
| DMP (IP54)   | 0.39" | 0.07" | 0.20" | 0.27" | 2.00" | 0.12" |
| WET (IP67)   | 0.47" | 0.07" | 0.20" | 0.27" | 2.00" | 0.18" |



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## COMPATIBLE EXTRUSIONS

|     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
|     | WIDE  | ROUND   | TORQ  | TRES  | LALO  | TALO  | ARKA  | TELA  | VEVE  | FLUR  | EMBD   | LATO  | MDIN  | OPTI-FLAT   | OPTI-OPTICS   | THIN  |
| DRY | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓  | ✓   | ✓   | ✓   | ✓   | ✓   |
| DMP | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓  | ✓   | ✓   | ✓   |   | ✓   |
| WET | ✓   |   |   |   | ✓   | ✓   | ✓   | ✓   |   |   | EXCLUDES 30°, 45°, 60° LENS  |   | ✓   | ✓   |   | NO LENS   |

## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

| DIM TO LEVEL | INDOOR   | OUTDOOR   |
|--------------|--|---|
|              | DW-HE Warm Dim Applications  | DW-HE Warm Dim Applications   |
| 0.1%         | QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+WD<br>QT-CAB-eLED+WD-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+WD<br>QTM-eLED+WD-AWN<br>QZ-DW | Q-SET-QZ-DW<br>QOM-eLED+DALI-DT6<br>QOM-eLED+DALI-DT8<br>QOM-eLED+PS-DALI-DT6<br>QOM-eLED+PS-DALI-DT8<br>QOM-eLED+WD<br>QZ-DW |
| 1%           | QZ-DALI-DT8  | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8  |
| 10%          | Non-Dim Power Supply with WD App Dongle  |   |



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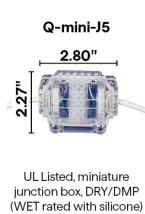
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| DIMMING PROTOCOL   | INDOOR  | OUTDOOR   |
|--|---|---|
|  | DW-HE Warm Dim Applications   | DW-HE Warm Dim Applications                           |
| Phase  | QZ-DW   | Q-SET-QZ-DW<br>QZ-DW                                  |
| 0-10V  | QT-CAB-eLED+WD<br>QT-CAB-eLED+WD-AWN<br>QTM-eLED+WD<br>QTM-eLED+WD-AWN<br>QZ-DW                               | Q-SET-QZ-DW<br>QOM-eLED+WD<br>QZ-DW                   |
| Lutron Athena  | QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+WD-AWN<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+WD-AWN                    |   |
| DALI-2: DT6<br>LED wattage must be doubled for DW-HE products except for AWN | QT-CAB-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6   | QOM-eLED+DALI-DT6                                     |
| DALI-2: DT8<br>LED wattage must be doubled for DW-HE products except for AWN | QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed   | Non-Dim Power Supply with WD App Dongle   |   |

## COMPATIBLE MOUNTING ACCESSORIES

|                                    |                            |                            |                              |                              |                              |                    |                    |                    |                    |
|------------------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|--------------------|--------------------|--------------------|--------------------|
| QUOVA-MICRO                        | SHIELD A - Medium          | SHIELD B - Medium          | BL-GRAZER                    | BL-MICRO                     | BL-LARGE                     | SD-L-LARGE         | SD-L-MEDIUM        | SD-L-MICRO         | SD-J-LARGE         |
|                                    |                            |                            |                              |                              |                              |                    |                    |                    |                    |
| QUOVA Knife Edge                   | For standalone use         | For use within extrusions  | Backwards L Mounting Bracket | Backwards L Mounting Bracket | Backwards L Mounting Bracket | L Mounting Bracket | L Mounting Bracket | L Mounting Bracket | J Mounting Bracket |
| IQ-STRAP                           | IQ-CLIP-SS12               | IQ-CLIP-SS10               | IQ-CLIP-PL                   |                              |                              |                    |                    |                    |                    |
|                                    |                            |                            |                              |                              |                              |                    |                    |                    |                    |
| Plastic strap, Fits all LED strips | Metal clip, Fits DMP strip | Metal clip, Fits WET strip | Plastic clip, Fits WET strip |                              |                              |                    |                    |                    |                    |

## COMPATIBLE WIRING ACCESSORIES





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### COMPATIBLE CONTROL ACCESSORIES

#### SCENE APP DONGLE



Wi-Fi or Bluetooth  
Connectivity

### COMPATIBLE APPS

#### NFC APP



Read and write  
DMX addresses and  
adjust voltage