



Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures



- Flexible encapsulated fixture
- Both helical bend and up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Two mounting options available
- When using DALI and DMX power supplies, LED wattage must be doubled
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures

ORDERING PROCESS

A Specify Non-Field Cuttable Q-CAP

B (Optional) Specify field cuttable 4' piece - used to adjust total run length in the field (dry applications only)

A. NON-FIELD CUTTABLE Q-CAP

| A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 |
|---------|----------|-------|-----|---------|--------|-------------------|-------------------|--------------------|----------|-------------|---------------|
| PRODUCT | MOUNTING | RATED | CCT | WATTAGE | LENS | WIRE INPUT/OUTPUT | CONNECTOR/WIRE IN | CONNECTOR/WIRE OUT | END CAPS | LENGTH (IN) | EXACT/OPTIMAL |
| | | | | | ENC/CL | | | | WH | | |

Sample Part Number: **WURM-DW-WSCS-DRY-24/30-1.5HE-ENC/TL-P1-BW-BW-N/A-48"-E**

| | | | | | | | | | | | |
|--|---|---|---|---|--|---|---|---|---|---|--|
| A1 PRODUCT WURM-DW WURM-DW-USA Select USA option for BA, BAA and BABA projects. LED engine is built with 3 wires requiring 0-10v, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See last page for compatible power supplies. | A2 MOUNTING MCS Magnetic Clip Small WSCS White Snug Clip Small BN-UD-SST-16' 16' BENDIT Up/Down Stainless Steel Channel BN-UD-SST-32' 32' BENDIT Up/Down Stainless Steel Channel BN-UD-WH-16' 16' BENDIT Up/Down White Stainless Channel BN-UD-WH-32' 32' BENDIT Up/Down White Stainless Channel White snug clip only for indirect cove use, not intended for hanging fixtures upside down. | A3 RATED DRY IP20 WET IP67 | A4 CCT 24/30 2400K/3000K 27/40 2700K/4000K | A5 WATTAGE 1.5HE 1.5WHE-SO 2.5HE 2.5WHE-HO SO: Standard Output HO: High Output | A6 LENS ENC/CL Encapsulated in Clear For representation of LED visibility, see Diode Visibility section on following pages | A7 WIRE INPUT/OUTPUT S1 Single 1 (Input only) - End Feed P1 Pass Through 1 (Input/Output) - End Feed | A8 CONNECTOR/WIRE IN BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | A9 CONNECTOR/WIRE OUT N/A Closed End (No feed) BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | A10 END CAPS WH White N/A Not Applicable | A11 LENGTH (IN) Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12". Available in 2" increments. | A12 EXACT/OPTIMAL O Optimal Illumination E Exact Specified Length Exact fixtures are the exact length specified +0 - 1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts. |
|--|---|---|---|---|--|---|---|---|---|---|--|

5 year warranty | Warranty only valid with QTL power supplies | Up/Down & Helical Bend | Data subject to change, all data has +/- 5% tolerance | Ambient or mounting surface must not be lower than -4°F or higher than: 1.5HE - 125°F; 2.5HE - 115°F | Patent # D846,786 S, 10,619,828 B2 | Only FC fixtures are Field-Cuttable per installation instructions | Field Cuttable is not returnable or refundable after it has been cut | Field Cuttable is not returnable or refundable after it has been cut



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B. FIELD CUTTABLE Q-CAP

| B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 |
|------------|----------|-------|-----|---------|--------|-----------------------|-----------------------|------------------------|----------|-------------|----------------|
| PRODUCT | MOUNTING | RATED | CCT | WATTAGE | LENS | WIRE INPUT/ OUTPUT | CONNECTOR/ WIRE IN | CONNECTOR/ WIRE OUT | END CAPS | LENGTH (IN) | EXACT/ OPTIMAL |
| WURM-FC-DW | | DRY | | | ENC/CL | S1 | | N/A | WH | 48" | N/A |

Sample Part Number: WURM-DW-WSCS-DRY-24/30-1.5HE-ENC/TL-P1-BW-BW-N/A-48"-E

B1

PRODUCT

WURM-FC-DW

LED engine is built with 3 wires requiring 0-10v, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See last page for compatible power supplies.

B2

MOUNTING

MCS

WSCS

BN-UD-SST-16'

BN-UD-SST-32'

BN-UD-WH-16'

BN-UD-WH-32'

Magnetic Clip Small

White Snug Clip Small

16' BENDIT Up/Down Stainless Steel Channel

32' BENDIT Up/Down Stainless Steel Channel

16' BENDIT Up/Down White Stainless Channel

32' BENDIT Up/Down White Stainless Channel

White snug clip only for indirect cove use, not intended for hanging fixtures upside down.

B3

RATED

DRY

IP20

B4

CCT

24/30

27/40

2400K/3000K

2700K/4000K

B5

WATTAGE

1.5HE

2.5HE

1.5WHE-SO

2.5WHE-HO

SO: Standard Output

HO: High Output

B6

LENS

ENC/CL

Encapsulated in Clear

For representation of LED visibility, see Diode Visibility section on following pages

B7

WIRE INPUT/OUTPUT

S1

Single 1 (Input only) - End Feed

B8

CONNECTOR/WIRE IN

BW

CON6

CON24

Bare Wire (Standard 24")

Connector 6"

Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

B9

CONNECTOR/WIRE OUT

N/A

Closed End (No feed)

B10

END CAPS

WH

White

Due to cutting, white endcaps are not available.

B11

LENGTH (IN)

48"

Nominal

Starting Run length is 48.38" for S1

Each cut point subtracts from the Starting Run Length

1.5HE & 2.5HE have a 2" cut point

S1 can be cut down to as little as 2.38"

B12

EXACT/OPTIMAL

N/A

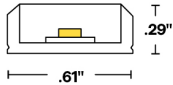
Single ▶



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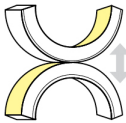
1 PRODUCT - DIMENSIONS



Profile
(Standard)

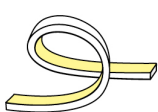
BEND RADIUS

Up/Down Bend



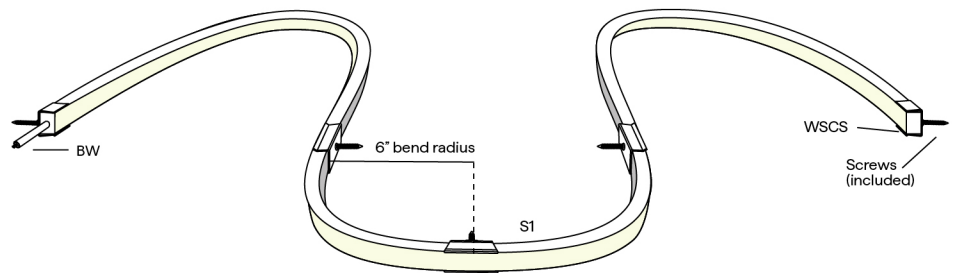
6" bending radius

Helical Bend



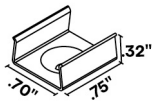
6" bending radius
Max recommended rotation
of 1 rotation per 16'

FLEXIBILITY



2 MOUNTING

WSCS

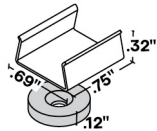


White Snug Clip Small
Indirect uplight

To order separately use WSCS

Each clip comes with a #6x5/8" flat
screw

MCS

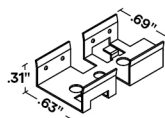


Magnetic Clip Small
Cove use only

To order separately use MCS

each clip comes with a #6x1 1/4" screw

BN-UD



BENDIT Channel
Vertical Stainless Steel
Flexible Channel

Continuous mounting solution for
flexible fixtures, 16' or 32' field
cuttable lengths

To order separately use either
STND-QCAP-BN-UD-S-SST-16',
STND-QCAP-BN-UD-S-SST-32',
STND-QCAP-BN-UD-S-WH-16', or
STND-QCAP-BN-UD-S-WH-32'

64 #4-40 1/2" screws provided per
16'



Q-CAP WURM™ FOR WARM DIM APPLICATIONS

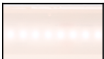
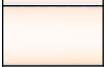
24VDC Flexible Fixtures

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with WURM-DW-WSCS-DRY

| CCT | 1.5 HE W/FT | | 2.5 HE W/FT | |
|-------|-------------|-----|-------------|-----|
| | ENC/CL | | ENC/CL | |
| | LM | CRI | LM | CRI |
| 2400K | 133 | 92 | 198 | 92 |
| 2700K | 126 | 96 | 201 | 97 |
| 3000K | 132 | 97 | 206 | 97 |
| 4000K | 142 | 97 | 225 | 98 |

6 DIODE VISIBILITY

| | |
|---|------------------------------------|
|  | ENC/CL - Clear encapsulation |
|  | ENC/TL - Translucent encapsulation |

TEMPERATURE RATINGS

| | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | |
|----------------------------------|---------------------------------------|-------|------------------------------------|-------|---------------------------------------|-------|------------------------------------|-------|
| | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
| | Min | Max | Min | Max | Min | Max | Min | Max |
| Ambient Operating Temp - Surface | -4°F | 140°F | -4°F | 120°F | -4°F | 120°F | -4°F | 100°F |
| Storage Temp | -4°F | 140°F | ** | ** | -4°F | 140°F | ** | ** |
| Installation Temp | 50°F | 100°F | ** | ** | 50°F | 100°F | ** | ** |

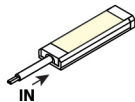
BUG RATING

| WATTAGE | B | U | G |
|--|----|----|----|
| 6.0 (ALL CCTs), 3.0 HE (ALL CCTs), 5.0 HE (ALL CCTs) | B0 | U1 | G0 |

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

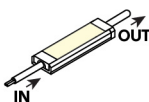
S1



End Feed

PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP

P1



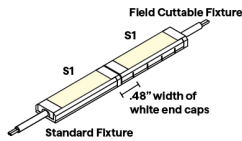
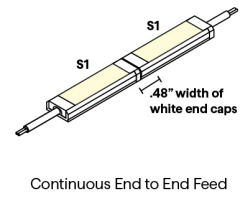
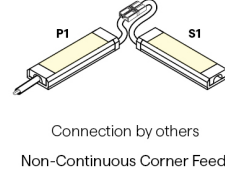
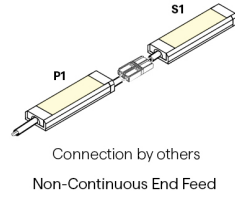
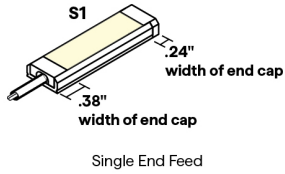
End Feed



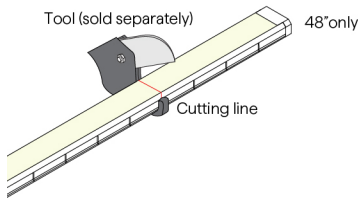
Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

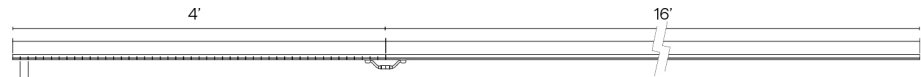
CONFIGURATION OPTIONS



FIELD CUTTABLE MARKING



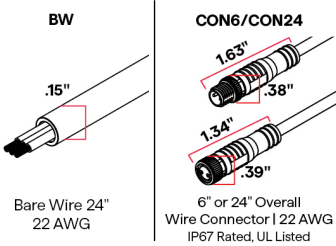
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment



Note: Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.
Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.

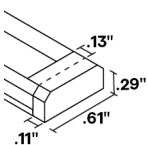
8 / 9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps



10 END CAPS (NO FEED)

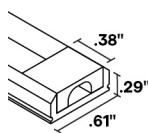
WH
(only used in
A. Non-Field Cuttable
Q-CAP)



White endcaps
.11" added at end
.24" dim spot

END CAPS (WITH FEED)

End Feed
S1, P1



White endcaps
.0" added at end
.38" dim spot

11 LENGTH - WIRING DETAIL



Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

Available in 2" increments 12"-191"

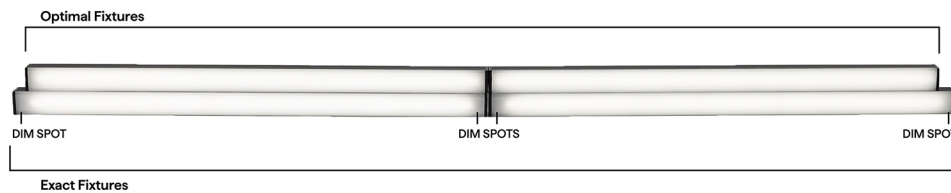


12 EXACT/OPTIMAL FIXTURE LENGTH

[E/O Length Calculator →](#)

[E/O Explained →](#)

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.



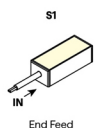
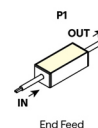
DW LENGTHS BY INCH

Available in any length in between 12" and 191", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

EXACT LENGTH

| Requested Length | Potential dim spot on either end of fixture |
|------------------|---|
| 12" | 1" |
| 13" | .5" |
| 14" | 1" |
| 15" | .5" |
| 16" | 1" |
| 17" | .5" |
| 18" | 1" |
| 19" | .5" |
| 20" | 1" |
| 21" | .5" |
| 22" | 1" |
| 23" | .5" |
| 24" | 1" |
| 36" | 1" |
| 48" | 1" |
| 60" | 1" |
| 72" | 1" |
| 84" | 1" |
| 96" | 1" |

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 | P1 |
|--------------------------|--|--|
| |  End Feed |  End Feed |
| 12" | 10.63" | 10.75" |
| 13" | 12.63" | 12.75" |
| 14" | 12.63" | 12.75" |
| 15" | 14.63" | 14.75" |
| 16" | 14.63" | 14.75" |
| 17" | 16.63" | 16.75" |
| 18" | 16.63" | 16.75" |
| 19" | 18.63" | 18.75" |
| 20" | 18.63" | 18.75" |
| 21" | 20.63" | 20.75" |
| 22" | 20.63" | 20.75" |
| 23" | 22.63" | 22.75" |
| 24" | 22.63" | 22.75" |
| 36" | 34.63" | 34.75" |
| 48" | 46.63" | 46.75" |
| 60" | 58.63" | 58.75" |
| 72" | 70.63" | 70.75" |
| 84" | 82.63" | 82.75" |
| 96" | 94.63" | 94.75" |



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


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 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW | Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+WD QZ-DW |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8 QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with WD App Dongle | |

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

COMPATIBLE MOUNTING ACCESSORIES

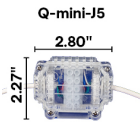
| | | |
|---|---|---|
| NJ-MEDIUM | SD-L-MEDIUM | IQ-QCAP-UNV-CUTTER |
|  |  |  |
| J Mounting Bracket | L Mounting Bracket | QTL recommended FC Cutter |



Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

COMPATIBLE WIRING ACCESSORIES



UL Listed, miniature
junction box, DRY/DMP
(WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth
Connectivity

COMPATIBLE APPS

NFC APP



Read and write
DMX addresses and
adjust voltage