Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

c UL us LISTED | **RoHS COMPLIANT** | **EPD ENVIRONMENTAL PRODUCT DECLARATION** | **5 YEAR WARRANTY** | **BA BUY AMERICA COMPLIANT** | **BAA BUY AMERICAN ACT COMPLIANT** | **BABA BUILD AMERICA, BUY AMERICA COMPLIANT** | **2022 PROGRESS Report SELECTION** | **Red List Approved Declare.**

- Flexible encapsulated fixture
- Up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Four different mounting options
- Available in seamless configuration for a continuous line of light
- Utilize clear endcaps for continuous runs
- 60% smaller than QTL's BOXA fixture
- When using DALI and DMX power supplies, LED wattage must be doubled
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures

.38"
.38"

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

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

A1 PRODUCT	A2 MOUNTING	A3 RATED	A4 CCT	A5 WATTAGE	A6 LENS
				2.0	

ADDITIONAL INFORMATION REQUIRED TO ORDER

A7 WIRE INPUT/OUTPUT	A8 CONNECTOR/WIRE IN	A9 CONNECTOR/WIRE OUT	A10 END CAPS	A11 LENGTH (IN)	A12 EXACT/OPTIMAL

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC/TL-P1-BW-BW-N/A-48"-E**

A1 — PRODUCT

WAVE-DW
WAVE-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

PPS-2	PVC Clip
PPS-96	PVC Channel
PPS-LP-2	PVC Low Profile Clip
PPS-LP-96	PVC Low Profile Channel
WSC	White Snug Clip
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.

PPS mounting clip recommended for seamless applications.

A3 — RATED

DRY	IP20
WET	IP67

A4 — CCT

24/30	2400K/3000K
27/40	2700K/4000K

A5 — WATTAGE

2.0 2.0W-SO

SO: Standard Output

A6 — LENS

ENC/CL	Encapsulated in Clear
ENC/TL	Encapsulated in Translucent

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

A7 — WIRE INPUT/OUTPUT

SINGLE (Input only)
S1	End Feed
S5	Seamless Feed

PASS THROUGH (Input/Output)
P1	End Feed
P5	Seamless 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

Single
CL	Clear
WH	White

Pass Through
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.

Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

B1 PRODUCT	B2 MOUNTING	B3 RATED	B4 CCT	B5 WATTAGE	B6 LENS
WAVE-FC-DW		DRY		2.0	

ADDITIONAL INFORMATION REQUIRED TO ORDER

B7 WIRE INPUT/OUTPUT	B8 CONNECTOR/WIRE IN	B9 CONNECTOR/WIRE OUT	B10 END CAPS	B11 LENGTH (IN)	B12 EXACT/OPTIMAL
		N/A	CL	48"	N/A

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC/TL-P1-BW-BW-N/A-48"-E**

B1 PRODUCT
WAVE-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
PPS-2	PVC Clip
PPS-96	PVC Channel
PPS-LP-2	PVC Low Profile Clip
PPS-LP-96	PVC Low Profile Channel
WSC	White Snug Clip
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.

PPS mounting clip recommended for seamless applications.

B3 RATED
DRY	IP20

B4 CCT
24/30	2400K/3000K
27/40	2700K/4000K

B5 WATTAGE
2.0	2.0W-SO

SO: Standard Output

B6 LENS
ENC/CL	Encapsulated in Clear
ENC/TL	Encapsulated in Translucent

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

B7 WIRE INPUT/OUTPUT
SINGLE (Input only)	
S1	End Feed
S5	Seamless Feed

B8 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)

B9 CONNECTOR/WIRE OUT
N/A	Closed End (No feed)

B10 END CAPS
CL	Clear

Due to cutting, white endcaps are not available.

Single

B11 LENGTH (IN)
48"	Nominal

Starting Run length is 48.475" for S1 & S5
Each cut point subtracts from the Starting Run Length
2.0 has a 2" cut point
S1 can be cut down to as little as 2.475"
S5 can be cut down to as little as 6.475"

B12 EXACT/OPTIMAL
N/A

Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

1 PRODUCT - DIMENSIONS

.38"
.38"
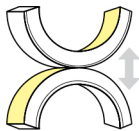Profile
(Standard)
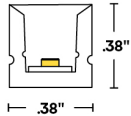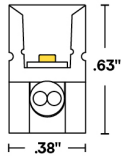
.63"
.38"
Profile
(Seamless bare wire)
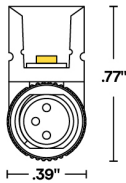
.77"
.39"
Profile
(Seamless CON6-24)

BEND RADIUS

Up/Down Bend

6" bending radius

FLEXIBILITY

P5
S5
PPS-2
6" bend radius
CON6
Screws
(included)

2 MOUNTING
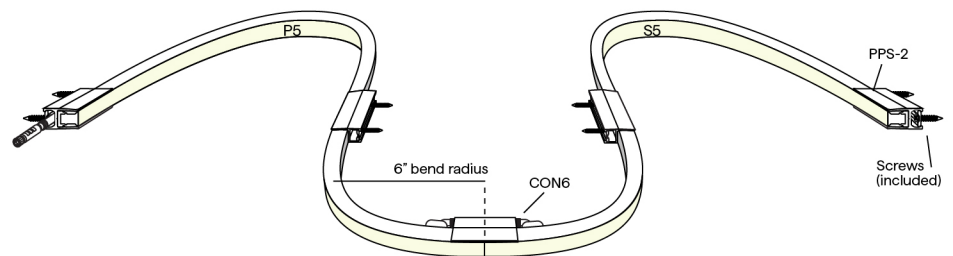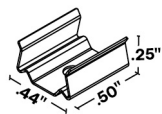
WSC	PPS-2	PPS-96	PPS-LP-2	PPS-LP-96
.25" .44" .50"	.94" .48" .56" 2" .46" 2"	.94" .48" .56" 96" .46" 96"	.47" .56" 2"	.47" .56" 96"
White Snug Clip Indirect uplight	PVC Mounting Clip	96" straight linear run	Low profile PVC Mounting Clip	Low profile PVC channel 96" straight linear run
To order separately use WSC-02	To order separately use MICRO5-PPS2	To order separately use MICRO5-PPS-96	To order separately use MICRO5-PPS-LP-2	To order separately use MICRO5-PPS-LP-96
Each clip comes with a #4x5/8" flat screw		Each clip comes with a #6" flat screw		Each clip comes with a #6" flat screw

MOUNTING CONTINUED

BN-UD

.45"
.41"
.39"
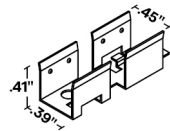
BENDIT Channel
Vertical Stainless Steel
Flexible Channel

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

To order separately use either
MICRO5-BN-UD-SST-16', MICRO5-
BN-UD-SST-32', MICRO5-BN-UD-
WH-16', or MICRO5-BN-UD-
WH-32'

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

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with WAVE-DW-WSC-DRY

| CCT | 2.0W/FT Total Load | | | | Circuit Wattage |
| | ENC/CL | | ENC/TL | | |
	LM	CRI	LM	CRI	
2400K	145	93	142	93	1.90
2700K	157	93	139	96	1.90
3000K	150	95	143	96	1.90
3500K	167	98	155	97	1.90
4000K	46	97	53	98	122

6 DIODE VISIBILITY

ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

| | DW 2.0 W/FT | | DW 4.0 W/FT | |
| | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	135°F	-4°F	110°F
Storage Temp	-4°F	140°F	-4°F	140°F
Install Temp	50°F	100°F	50°F	100°F

BUG RATING

WATTAGE	B	U	G
4.0 (ALL CCTs)	B0	U1	G0

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN

End Feed

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

P1

OUT

IN
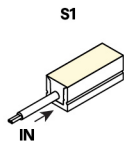
End Feed

SEAMLESS SINGLE (Input only)
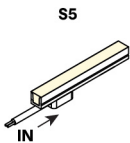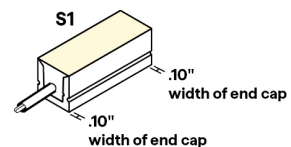
S5

IN
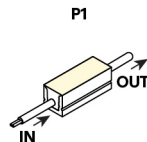
Seamless Feed

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

P5

OUT

IN
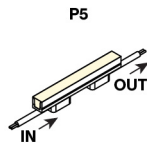
Seamless Feed

CONFIGURATION OPTIONS

S1

.10" width of end cap

.10" width of end cap
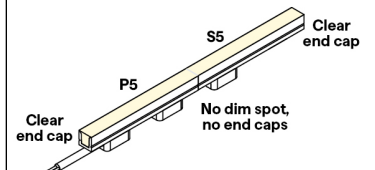
Single End Feed

S1

P1
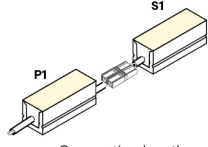
Connection by others

Non-Continuous End Feed

P1   **S1**
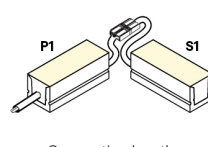
Connection by others

Non-Continuous Corner Feed

S5   Clear end cap

P5

Clear end cap

No dim spot, no end caps

Seamless Bottom Feed

S1

S1

No dim spot, clear endcaps

Continuous End to End Feed

Field Cuttable Fixture

S1

S1

No dim spot, clear endcaps

Standard Fixture
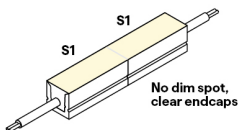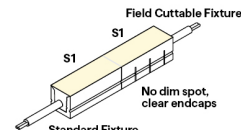
Field Cuttable - Continuous End to End Feed

Field Cuttable Fixture

No dim spot, no end caps

S5   Clear end cap

P5

Clear end cap

Standard Fixture
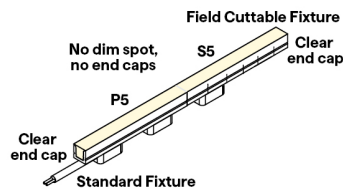
Field Cuttable - Seamless Bottom Feed

FIELD CUTTABLE MARKING

Tool (sold separately)   48"only

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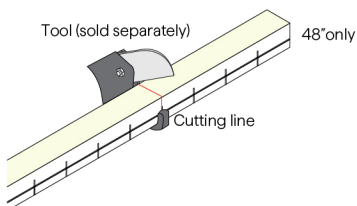
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment

4'   16'
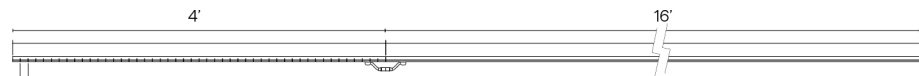
Note: Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.
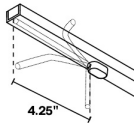Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.

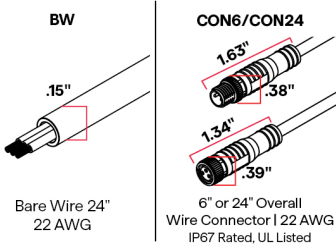# Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

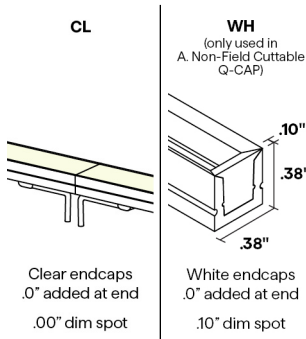## SEAMLESS

Shown with bare wire, connectors vary

4.25"

Omnidirectional
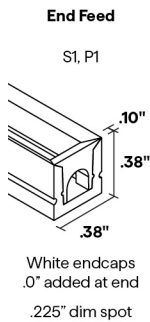wireways
S5, P5

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

BW	CON6/CON24
.15"	1.63" .38"
	1.34" .39"
Bare Wire 24" 22 AWG	6" or 24" Overall Wire Connector | 22 AWG IP67 Rated, UL Listed

10 END CAPS (NO FEED)

CL

Clear endcaps
.0" added at end

.00" dim spot

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

.10"
.38"
.38"

White endcaps
.0" added at end

.10" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1

.10"
.38"
.38"

White endcaps
.0" added at end

.225" dim spot

11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"

.25"

Black=+24V
Red = WW
Blue = SW

BW 24"

12 EXACT/OPTIMAL FIXTURE LENGTH

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.

Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
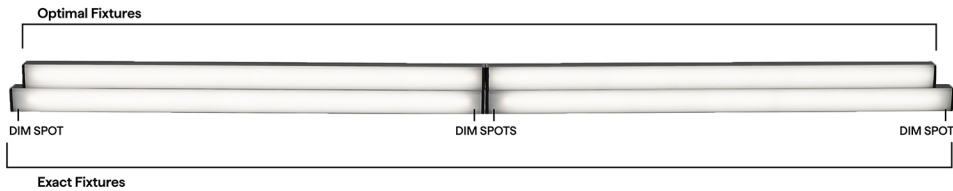
Exact Fixtures

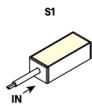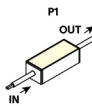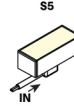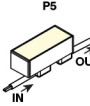# Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

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 (End Feed)	P1 (End Feed)	S5 (Seamless Feed) & P5 (Seamless Feed)
12"	10.63"	11"	10.25"
13"	12.63"	13"	12.25"
14"	12.63"	13"	12.25"
15"	14.63"	15"	14.25"
16"	14.63"	15"	14.25"
17"	16.63"	17"	16.25"
18"	16.63"	17"	16.25"
19"	18.63"	19"	18.25"
20"	18.63"	19"	18.25"
21"	20.63"	21"	20.25"
22"	20.63"	21"	20.25"
23"	22.63"	23"	22.25"
24"	22.63"	23"	22.25"
36"	34.63"	35"	34.25"
48"	46.63"	47"	46.25"
60"	58.63"	59"	58.25"
72"	70.63"	71"	70.25"
84"	82.63"	83"	82.25"
96"	94.63"	95"	94.25"

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
	MICRO 5-DW Tunable Applications	MICRO 5-DW Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QTM-eLED+TW-AWN	Q-SET-QZ-DMX QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+TW
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle	

Q-CAP WAVE FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

DIMMING PROTOCOL	INDOOR	OUTDOOR
	MICRO 5-DW Tunable Applications	MICRO 5-DW Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN	QOM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN	
DMX LED wattage must be doubled for DW-HE products		Q-SET-QZ-DMX
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 TW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

QUOVA-MICRO	NJ-MICRO	BL-MICRO	NL-MICRO	SD-L-MICRO	iQ-QCAP-UNV-CUTTER
QUOVA Knife Edge	J Mounting Bracket	Backwards L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	QTL recommended FC Cutter

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

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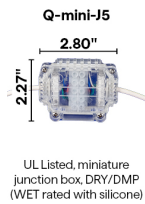
COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

Wi-Fi or Bluetooth
Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write
DMX addresses and
adjust voltage